ttgcatggag ccagtggaga agtgcctgag ggatgccaag atggacaaga gcactatcca 60

tgatgttgtg cttgttggtg gttccaccag aatccccaga gttcagcagc tgctgcagga 120

cttcttcaac gggaaggagc tctgcaagag catcaaccct gatgaagctg ttgcctacgg 180

tgctgccgtc caggctgcaa tcctcagcgg tgaggggaac gagaaggtgc aggaccttct 240

cctcctggat gtcaccccac tgtctcttgg tcttgagact gctggaggag tcatgactgt 300

gctcatcacc aggaacacca ccatccccac caagaaggag caggtcttct ccacctactc 360

cgacaaccag cctggtgtgc tcatccaggt gtttgagggt gagaggacaa ggaccaggga 420

caacaacctg ctcggcaagt ttgagctctc tggcatcccg cctgcgccca ggggtgttcc 480

ccagatcact 490

<210> 4726
<211> 416
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033a09b1

<400> 4726

tccacgcgtc cgcccacgcg tccgattctg atgtgattca gtgcaccaaa ggttacataa 60

tacgagtaaa aattgttagg tcatagatgt gcttcaaaat gtaattctga gcgcatatgt 120

tgcgggaaat ctgtagcatg tagagcaaat tggtaattgt ttgtattgtt ttgtacacaa 180

tagattactt gtgattcttt tcgttnaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaaaaaa aaaggggggg ggccttttta ggggaccaaa tttatcttgc 360

cggggatggc gaggaaaaac ttttttttttg gggcccctaa aatcaaattc atgggc 416

<210> 4727
<211> 404
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033a10b1

<400> 4727

actaccacgc gtccgcccac gcgtccgatt ctgatgtgat tcagtgcacc aaaggttaca 60

taatacgagt aaaaattgtt aggtcataga tgtgcttcaa aatgtaattc tgagcgcata 120

tgttgcggga aatctgtagc atgtagagca aattggtaat tgtttgtatt gttttgtaca 180

caatagatta cttgtgattc ttttcgttna aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa gaaaaaaaat aaaaaaaaaa aaaaataatt taaaaaaaaa 300

ataaaaaaaa aaacatataa aataagaggg gggggccttt taaaaggtac caatttttct 360

tcccggggtt tgcacgaaaa aatttttttt ttggggcccc caaa 404

<210> 4728
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033a12b1

<400> 4728

tacacgtgcg tcttagacct gtggatcaaa tgtctggaat gtggtctgtc gaggtattgc 60

aattgcgggc gcctattttc acttggaaac ttatgtgagg aagctctgca cttcctgaat 120

gcaagctttc cacaagtatt atttcatatg tatattcaag tgttgcacta cgtattatgc 180

tctcttgcaa ttatccaatt gcc 203

<210> 4729
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033b11b1

<400> 4729

ttttaccagc gcaggatttt atctggtcct aatgggtaca attctgtgcc ttcaacaaca 60

agagaagaca ctagctctag aattccagat cgattttctg ggagaatagc aactgctgca 120

caatctgcta gttcttcaca cagacctgcc agccaggagg gtcgttcagg aaataaatca 180

tactctgagg aggaattgag agagaaatct attgcaacca tccgggaata ttatagtgcg 240

aaagatgaaa aggaagttgc attgtgtatt gaggagttga atgctccgag cttctatcct 300

tctcttgtat cactttgggt aaatgattcc tttgagagga aagatatgga aagagagttg 360

ttggcaaagc tctttgtcgg gctttacaat ggtggatata atttattgag caagcctcag 420

ctcattgagg g 431

<210> 4730
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033b12b1

<400> 4730

ttttaccaac cacacaagaa ccgatcaaga caccagcaat ggccggagga ggaagcgacg 60

aagtgaagct gctgggcatg tgggcgagcc cgttcgtcct tcgagtcaag ctcgcgctca 120

gcctcaaggg cgtcggctac gagtatgtcg aagaggacct caagagcaag agcgagctgc 180

tcctcaagtc caaccccgtg ctccagaagg tgccggtgct gatccacgac ggcaagccca 240

tctgcgagtc gtcggtcatc ctgcaataca tcgacgaggc tttcgccggc gtcggctcct 300

cgctcctccc ggaggaaccc cacggccgcg ccgttgctcg cttctgggcc gcttacatcg 360

acggcacgct cgtgaaagca tcgtccgagg cgtccatggc caagacggag gaggagaagg 420

ccgaggggaa gaagcaggtg gcccgcgcgg tggagacctt ggagggggcc ctgagggact 480

gctctaacgg gaaaccct 498

<210> 4731
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033c02b1

<400> 4731

tttacgcgtg gggccccgtc aaggtgaacc tcggcgtcgg cgcctaccgg accgaggaag 60

ggaagcccct cgtgctgaat gtggtcaggc gcgccgagca gatgctgatc caaaacgagt 120

cacgtgttaa ggagtacttg ccgatcactg gattggccga tttcaacaag ttgagtgcca 180

agcttatctt tggtgctgac agtcctgcta ttcaggagaa tagggtggct acagtacagt 240

gcttatcagg aactggttcc ttaagagtgg gaggtgaatt tcttgcaagg cactatcatg 300

aacgcactat ctacatcccc cagccaacct ggggggaatc acccaaaagt gttcacttta 360

gctggcctga cttgctagga gtaccggtac tatgatccct gcactcgtgg ac 412

<210> 4732
<211> 418
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033c03b1

<400> 4732

tgtccgncca gcttgtttta tgtttaatta tgacccctgc agtttgccta gctagcacta 60

tgctatcgta cgctgtgata ttgtgtgaca tggtatcatg ttattatatc tctacctatc 120

taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa gggggggccc gttttaaaga accaaattta actaccccgt gattgcaaag 300

aaaaattttt tttatggggc aacaaaaata aaataaatgg gccgggtttt aaaaacgggg 360

gaatgggaaa aacctggggg tacccaaatt aaaaggcttg gaaaaaaatc ccctttc 418

<210> 4733
<211> 461
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033c04b1

<400> 4733

ttgaattcaa gaaagacatg gacgagcagt ggatgatggg gcagacttcc ctcagcctcg 60

gcctcaacgt cggccggccg acggcgcggc ggggtgcccc tccggtgacc aaggtcctcg 120

tggaggagga cttcatgtcc tccaagaaga atcacgaggt cgaggcgctg gaggcggagc 180

tccggcgcgt gggcgaggag aacaggaggc ttagcgacat gctccgcgcg ctggtggcca 240

agtactccga cctgcagggc agggtcagcg gcaagatggc ggcggtgacc gcggccaaaa 300

accgccagtc acccacgacg tctgagggcg gctccgcatc ctcgccgtcc aggaagcgcg 360

cccgcagcga cagccccgac accgccgtcc aggaagcacg cccagccagc ggcggcttcg 420

ccgtcagcgt caacgtcggc cccgaccagg cggagtgcac g 461

<210> 4734
<211> 514
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033c08b1

<400> 4734

ttcagacaat gccatcacag gaactgtccc tatctcaaca ggaacgacac cgggccttga 60

ccttcttacc aacacgaagc acttccattt caacaagaac cagctatctg gaacgcttac 120

aggcctcttc aagcctaata tgaccctcat acacatattg tttgatagca atcagttcac 180

aggcccaatt ccgcgtgagc ttggaagcat tacctcgctc caagtactcc gactggatag 240

gaaccaattt gcgggagcag tccctaacat caccaacttg gtcaacctaa atgagctgaa 300

cttggcaacc aacaagctaa ctggatcagt gccaaatctc agcagcatga acgtgttaaa 360

tgttgtggat ttaagcaaca acagctntac cgcgtccgca ataccagcct ggttcacaaa 420

tctaacaaat atttcttcaa tatcgatgtc ttctgcgagg ctcacttggc gggtccctca 480

ggaactcttc aatttgcccc agcttgcatg aagt 514

<210> 4735
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033c12b1

<400> 4735

tcttcgaggc ggagagcaac atgaacgacc tcgtctcgga gtaccagcag taccaggatg 60

ccactgctga cgaggagggc gagtacgagg atgaggatca ggagcctgag gaggacatgt 120

aaggtgggat gtccatgtcg tgctttgctg ggtgggggtt ctgggggcag agtttgatct 180

gtttggtgct ttgttataaa tctgattatc atcgcaacta ccgcttgtac gccaccgcca 240

ttcttcctgc ctttcctaag ctctgtattt cctatgttat ggcacctttt cggtattgta 300

tcacttgatg ccgcgcggta tgttctgagt tgaggtttct ggttctctca acagacaagc 360

aacacatact actttaaaac agctggcaaa ataacaaaaa ggc 403

<210> 4736

<211> 491
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033d02b1

<400> 4736

gtctgccact tcatcgggga gggcgggttc gggccggtct acaagggctt cctcgacgac 60

aaggtggtgc cggggatgca gccgcagcac gtggccgtca agtacctgga cgccgagggc 120

ccccagggcc accgccagtg gctcgccgag gtcgtctacc tcggcatgca gctcagccac 180

ccgcacctgg tgaagctcgt cggctactgc taccaggagc accaccgcat gctggtgtac 240

gagtacatgg cccgcggcag cctcgagcac cacctcttca agaatctgct ggcgagcttg 300

ccgtgggcga cgaggctgaa gatcgcggtg ggggcggcca aggggctggc gttcctgcac 360

gaggcggaga cgccggtcat ctaccgggac ttcaaggcct ccaacatcct gctcgaatcg 420

gtcagtgctc ctncaccatc cctaccaact ncggcgggca tatcatatcc cgttcatacc 480

tncatacctt c 491

<210> 4737
<211> 72
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033d05b1

<400> 4737

atcacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcc cacgccgtccg 60

tctagatcgc ga 72

<210> 4738
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033d09b1

<400> 4738

tcgtgcctct cttccttttc tcctttcaaa ctgagatcct tttcttaaac cctctcctcc 60

tcccctatcc ctctcccttt tttaccctgt ctttgtctct aaaagaaaga actcggaaga 120

tcctcttgaa atgcaaaacc gcccaatttt tcttcaattc ttttttttctc ttccacttca 180

ttttctcggc tgtctggttc tggtgtcggt ttgtttgggc tgggtactgg ttcggatgga 240

tcaacacagg actttgggaa agctacggtt gattagggtg tattgggtgt gttttttgtt 300

gcctttctgg gagggctttg aggggcgagg agatatgaaa actcttaggg ggtgaaggga 360

aatggggaat gattgaggga tatgccttgg gcttcgttag agcggattca gatgtgtttt 420

<210> 4739
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033d10b1

<400> 4739

tcttgcctct cttccttttc tcctttcaaa ctgaatcctt ctcttaaacc ctctcctcct 60

cccctatccc tctccctttt ttaccctgtc tttgtctcta aaagaaagaa ctcggaagat 120

cctcttgaaa tgcaaaaccg cccaattttt cttcaattct ttttttctct tccacttcat 180

tttctcggct gtctggttct ggtgtcggtt tgtttgggct gggtactggt tcggatggat 240

caacacagga ctttgggaaa gctacggttg attagggtgt attgggtgtg ttttttgttg 300

tcttcctggg agggctttga ggggcgagga gatatgaaaa ccttttgggg gtgaagggaa 360

atggggaatg attgagggtc atgccatggg ctcgttagag cggtttcaga tgtgtagtcc 420

tcgcaatgac aagaggcttc 440

<210> 4740
<211> 499
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033d11b1

<400> 4740

tcttcctcga catcctaaag gacaagtgga gtccagctct tcagatacgc actgttcttc 60

tgagcattca ggcactgctg agcgccccaa acccagatga tcctctctca gaaaacgtcg 120

caaaacactg gaaatccaat gaagctgaag ctgttgagac agcgaaggaa tggacccgta 180

tgtatgccag tggcgcatga caagctaacg ctgttatgga tgtaataaca ctgtgtcata 240

gttgggccta atcgaaaacc atttgcttga taaaaacaca cttgaaatga tttgcgatgg 300

acgaatgtat ccagagcggc atcatttctt gttggtggtt gtatttgtgg tgcgtgttct 360

ggcacgcttc ataacttgct gcttatagaa cacgctctgt ttctcgttca tcctcaattg 420

tttctccaat taaaaatatc tgttgtgatc cggtatgtaa gctcttcaaa tgaaatagtg 480

gctctctgta ttntccccc 499

<210> 4741
<211> 466
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033e01b1

<400> 4741

ctgtactggc gcgcgcggct tcggatcgcg cggggcgcgg ggcgcggggt gctgcacatc 60

cacgaggtgt gcacgccgca gatcgtgcac cgggacatca agtcgagcaa catcctgctg 120

gacgagtccg gcgaggcgcg ggtggcggac ttcgggctgg cgcggctgat cctgccggac 180

cggacgcacg tgacgacgga gctggtgggc acgctggggt acatcccgcc ggagtacggg 240

caggggtggg tggcgacgct gcggggcgac gtgtacagct tcgtggtgct gctggagctg 300

ctcaccggga ggcggcccgt ggagatgatg gcggcggcgg ggcagccgag ggacctcgtc 360

gggtgggtga cgcagatgcg gtcggcgggg aggcacgcgg aggcgctgga cccgcggctg 420

aggcagggga gctcgcctgg cgacgaggcg cagatgctgt acgtgc 466

<210> 4742
<211> 496
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033e12b1

<400> 4742

ttttaatctt acggatcaag gtgcgtcaag ccaccgatca tctatggtga tgtgagccgc 60

cccaacccca tgaccgtctt ctggtccaag atggcgcaga gcatgactgc tcgcccaatg 120

aagggtatgc tgacaggccc tgtcacaatc cttaactggt cttttgtcag aaatgaccaa 180

ccgaggtttg agacttgcta ccagattgct cttgcaatca agaaggaggt cgaggacctt 240

gaggctggtg gtattcaggt tatccaaatc gatgaggctg ctttgagaga gggtctgcca 300

ctccgcaagt cggagcatgc tttctacttg gactgggccg tgcactcctt caggatcacc 360

aactgcggtg tccaggacac cacccagatc cacacccaca tgtgctactc caacttcaac 420

gacatcatcc agtccatcat caacatggac gccgatgtga tcaccatcga gaactcgcgg 480

tccgacgaga agcttc 496

<210> 4743
<211> 88
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033f01b1

<400> 4743

ctgacgcgtg ggaaaaaaaa aaaaaaaaaa aagaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaataaggg aggaggtt 88

<210> 4744
<211> 97
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033f02b1

<400> 4744

gtgccccgtg ggaaaaaaaa aaaaaaaaaa aagagaaaaa attaaaaaaa aaaaaaaaaa 60

aaaacaaaac aaagaaaggg ggtaggatat taatgag 97

<210> 4745
<211> 511
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033f03b1

<400> 4745

tctacgcgtc cgcccacgcg tccggggccg caagctttaa catcattccc agcagcactg 60

gtgctgccaa ggctgttggc aaggttcttc ctgagctgaa tggcaagctt accggtatgt 120

ctttccgggt tcccactgtg gatgtgtcag ttgttgatct cactgttaga accgagaagg 180

ctgcatcata cgatgacatc aagaaggcta tcaaggctgc atctgaggga aaactcaagg 240

ggatcatggg ttatgtcgag gaagatttgg tctccactga ctttgtcggt gacagcaggt 300

cgagcatctt tgatgccaag gctggaattg ctctgaacga ccatttcgtc aagctcgtct 360

cgtggtacga caacgagtgg ggttacagca accgcgttgt cgatctgatc cgccacatgg 420

ccaagactca gtagagcgtt ctgatttcct ttggtcagag gtgtccctgc tttgtctatg 480

cgaagaataa atgtngatgg tgtcgccaga c 511

<210> 4746
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033f09b1

<400> 4746

ttgttcacgc gtccgcccac gcgtccgccc ggaccagagc aagagagaga tttcccccga 60

ttcgatccga tcagatccga gatctccatc cccgatggcg tcccggagct gcaccttcct 120

ggagatcctg ctcgccatca tcctgccgcc gctcggtgtc ttcctccact acggctgctg 180

cagcatggag ttctgcatct gcctgctgct caccatcctg ggctacatcc ccggcatcat 240

ctacgcggtc tacgtgcttg tcgcgctcgg ctcggaggag cgggatcggg actacgacac 300

ccttgcttaa taatcctgca gcaactcgta ttgtgtgatg aacctctcgc ctggtagttg 360

cgaatcgacg tcgtgtgttc ccatctggac tgtgtagcgt gccttctttc tgtcagcctg 420

taaatgctta aaccatcctc cccttcgctt tcgccgtcct gtaattct 468

<210> 4747
<211> 502
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033f10b1

<400> 4747

tcgttcacgc gtccgcccac gcgtccgccc ggaccagagc aagagagaga tttcccccga 60

ttcgatccga tcagatccga gatctccatc cccgatggcg tcccggagct gcaccttcct 120

ggagatcctg ctcgccatca tcctgccgcc gctcggtgtc ttcctccact acggctgctg 180

cagcatggag ttctgcatct gcctgctgct caccatcctg ggctacatcc ccggcatcat 240

ctacgcggtc tacgtgcttg tcgcgctcgg ctcggaggag cgggatcggg actacgacac 300

ccttgcttaa taatcctgca gcaactcgta ttgtgtgatg aacctctcgc ctggtagttg 360

cgaatcgacg tcgtgtgttc ccatctggac tgtgtagcgt gccttctttc tgtcagcctg 420

taaatgctta aaccatcctc cccttcgctt tcgccgtcct ggaattctga tacgacccga 480

tatatttcag cagcttcgaa ga 502

<210> 4748
<211> 242
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033f12b1

<400> 4748

tcgaaaattc tctggttgtt ccagtggttt ttttattttc attgcgatct atttgtggca 60

agaaataaga aagacaaact cttgtgttga caatccggaa ttggctgaat tgtgtctacc 120

ctgttttcac atcaatgata tatgtgagcc gattgaaaaa aaaaaaaaaa taaacaatat 180

acaagagtaa aacaaaagaa ccaaaaaata aaacaaaaaa aaaaaaaaat aaaaaaaacc 240

ag 242

<210> 4749
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033g01b1

<400> 4749

tatcacatgt gatctgaatg ataacatcgc tgccccatgg tcgccttctt tgcaagcatc 60

ggcttcgaca tgcaataaat cagctgctcc tggtccaaca atcccagaga ggcctgcagc 120

aacatcggcg cagaacggtg tcaaccacaa cagactggag cttagcctag ccgtctgctt 180

tggcgccctt gtggccacta ttttactgca agtctagttc accttagttt gtcaaattat 240

ccagggtttg aggagagctg attggaacag tgaaccgcgg agtttttgtg cgtgcttggt 300

catcgcatca gagcattgta actggtagct attagtgtaa tttgctgtaa gccacagaat 360

gatagtgaat gcaacactga ctctaattta ttactattat gccttttgta tagcgagtag 420

tgaaggttca t 431

<210> 4750
<211> 493
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033g02b1

<400> 4750

aaggtgggac ccctgcgcag gaccgcggcc gaattcccgg ggcggcccaa gccgtccggt 60

ggttcatggc cctgggccta ccgttactga cgcgcgtgac gaccgctacc gacgcagcaa 120

agatgccggc cgaggagctg cgccacggcc ccgtcggcgc cttctcctgg ctcggcatcg 180

ccttcctcac cgtcaactcg gccatggcga tccacaggtc caaaggcgac ccgtccgcgg 240

tcggcttcgt ggccttctcc tacctcgacc tcgtactgct cttctacttc cataggaggt 300

tcgagagcgc cgcgcccggc tcaccggcga gacggaggct caaggtggcc gtctgggtcc 360

tcaccaccat gctcacggcc gttctaagct ataaggtggc ggctatcatg ccgctgccag 420

ggcagatcct cgtttgggcc atggccggcg ccgccacagc aggaggattc tacgccttct 480

tcctgttccg gga 493

<210> 4751
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033g03b1

<400> 4751

tttgtttgac taccgcgccg cggccatgga cgccatcgcc aaggccaacc cggtggtgaa 60

ggcggagaag ctcgacaaga tctaggaagg ggcctcccta cggtcggcag aacataaggt 120

cccaaatcaa atctgcgcta cctcgtcatc gtgcgtcttt gctgcattat cctttcatca 180

tgttggcttc tgcaatccta gttgttgggc aatcgtgatg catggcacac gcgccacggc 240

ggcagcccca ggtccgaacg gtctccttgt tggctatgtt gtgtaagctt tatttatggt 300

cgtctctctg cgcggcggaa cggtaacggt attgtggctt tcgc 344

<210> 4752
<211> 382
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033g07b1

<400> 4752

tgtattctta aagcctttgg tggtctcctt ttcatcatca gcagctcgtt cggagcgctc 60

gtactgcttg tttacttggc attcataacc cctgtcgtgt acgacttcta caactacgag 120

atggagtccc agcaatttgc caagctcttc accatgtttt cacagaacct ggccctcttc 180

ggcgcgctgc tcttcttcct gggaatgaag aactccatcc caaggaggca ctccaagaga 240

aggaccgcaa aggctaagac aacctgaagc cagtaagggg attgtgatag gagggcaagc 300

tatcaatatg gaaactcgtc gtgttttacg catacttttg gagcagtaca tgtnccgctt 360

tttgcccata ggattcgtga gc 382

<210> 4753
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033g08b1

<400> 4753

tcgtctggag taagaaagag ggagcatggg gaagaagggg gttgccctgg tggcgctgct 60

gctggtgatg gtcagcatgg cggtcgtgat gactgccgac ggccagggtg ccggcagcga 120

gttcggcaaa gcggccgaag gagccgggac aggcgccgcc accgctgctg agggcgcggg 180

agccgccgtg aagtcggcgg cccagggagc aggccaggca gctagtggcg ccggcgaagg 240

tgctggtaaa tcttactccg gcggcggccg tcgttgagcc tgccgtgtac cgcgggatcg 300

tcgccgccgt ggctgaggaa tgatacccaa ccatgccact gcgaataata aaaatcaagc 360

tgcttaatta gcatgctgtc aactgaaacc atgttaacat gccgctcgat gtatgtcacg 420

ctta 424

<210> 4754
<211> 235
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h01b1

<400> 4754

atgttggctg gccacgacca catggagatc ggccccatgc tccggcagtg cagagagctg 60

ctcgagggcc ttgagactat cactgactgc cgaggtagcg atgggacgac ggctaggacc 120

atcgttgagg tctacccgca catcacgcgc actgttgtgg accttccaag gctcatggac 180

agagttcttc gtgcccctga agaaagagcg cgtgaagtat cgatcttggt gacct 235

<210> 4755
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h02b1

<400> 4755

gtgtggctgc ccacgaccac atggggatcg gccccgtgct ccggcagtgc agtgagctgt 60

tcgaggggct tgagactctc actgactgcg gtggtggcga tgggacgacg gctaggtcca 120

tcgtcgaggc ctacccgcac atcaagtgca ctgttctgga ccttccaaag gtcatggaca 180

aagttcttct tcccgctgaa gaaggagcgg tgaagtatgt ttctggtgac ctgttccacg 240

tcgtcccacc tgctcaagcc gtgttgctca agcttgttct gcacttctgg agcgacgagg 300

attgcatcaa gatcctcgca caatgcaaga aggccgttcc tccccgagac gcgggaggga 360

aagtcatcgt catagacatt gtgcttggct cggtttctgc agggccaatg ctggaaaccc 420

agcacctcat ggatatgctc atgctcgtga tga 453

<210> 4756
<211> 348
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h04b1

<400> 4756

atagaaggag ctcatcaaga tccacggctt ctaagctgaa gccgcctccg ataaatgccc 60

gaaccgccag ccggttctac tctatattga agacttaagg catctatatt gccgcccgct 120

tgttgaaccg gtttcttgct tgatgcaagt tgtgttgtca cctggttatt atgctgctgc 180

tgtaccagca tatcagtatg gtttgtctaa gatgttgccg actaaataaa aatccgtatc 240

gtttggctga aaaaaataaa aaacgtcact atacgaaata aaaaaaaaaa aaaaaaaaaa 300

aataaaaaaa atacaaaaaa aaaaaaaaaa aaaaaataga gagaacgg 348

<210> 4757
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h06b1

<400> 4757

tcacgcgtcc gcccacgcgt ccggctattt gtcttcatgt gaggcgtcgt gttgtaaatt 60

tccatatata atgtgatgta aaacttcttg gctcc 95

<210> 4758
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h08b1

<400> 4758

tcgtttcgag cgcctcctcc tgtctcgtcc tcgtcccccg ttccccgtcc cctcgtcggc 60

gcccgatcta agtcaagatg agtcgtggcg ggagtgctgg aggtggtcaa agttcttctgg 120

gttacctgtt tggagatggt gagcctgcaa agcctgctgc agcaccagct gcgaagccag 180

cacctgctga gaaaccagca ctggcagctg ccgatgtaac caagcagatt ccagctggca 240

ttccaggtag ccgggcgaac aactactacc gtgcagatgg ccagaacacg ggcaacttcc 300

ttacggaccg tccttcaacc aaggttcatg ctgctcccgg cggaggctcg tccctgggct 360

acttgattgg cgggaagtga tctctgttaa tgatgctgcg atgaattggc ctgtatctct 420

gctatccatg tggtgaaaac tggaagtgtt tggtttcagc agtttaccac ctgcgtcg 478

<210> 4759

<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h11b1

<400> 4759

ttgtcgaccg gtaaggagct ccccccgggc ccgccggcgc tagtcttcct ggctaagttc 60

ctagcgctcc ggcgatccat cttccacctt gagccgctcc tccgcgagct gcacgcgcgc 120

tacggccccg tcatctccat ccgcctcttc cgcgccctcg tcttcgtctc cgaccgccgc 180

ctcgcccacc gcgttctcgt ccagggcggc gccacctttg ccgaccgccc gaggctcttc 240

gagccggggc tcctcttcac ctccggctcc cgcaacatca acgccgcgcc ctacgggcct 300

tactggcgcc ttgtccgccg caacctcgcc tccgaggcgc tgcacccggc ctgcgtcagc 360

cagttcgcgc ccgccaggcg ccggatgcgc gacgtgctcg tacgcgacct cagcgcgcgc 420

ggcgccggcg gcgaccccgt cgaggtgagg acgcc 455

<210> 4760
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034a01b1

<400> 4760

taacgacatc ctgtggtgtg gtgtatcatt ccctttgtgc ggattcttca aatttgtcgc 60

ttcaagtaga aactgcacgt ggatgattgc tattcgatgt ttgcttgtgg tgtggtgaag 120

tcaataatat ctcatcataa gaaataagca cacatgtttg cttaaaaaaa atacaataag 180

aaaaagaaca acaaaaccga taaaaaaaaa tggcggggac ttaaaaaaaa aaaaaagctt 240

cttgcgggag agctcaaaaa aaaagctttt tttatacgag gcctaaaatt aacactggcc 300

ggcgttttac aacaccgtaa ctgagaaaaa accgggg 337

<210> 4761
<211> 251
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034a03b1

<400> 4761

tgttggagaa gcgcgcggag catcagaaac atcatccctc cttgccttgt tcttttatct 60

cttcctaata gtttgttggt cgaatttata ggattcttaa tcgacagatc aggaatcacc 120

tccccattca gctaagctgc atgtcttttg cttatatttt gtcctttctt gtacttacat 180

ctcatgctgt gtggatttcc tatggctcaa gtttgttgct gcgctcaggt ttcagcaatt 240

gctgcacctg c 251

<210> 4762
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034a07b1

<400> 4762

tctagagaag agagctagta tgtttgtagt agtaatttgt acaaagaaaa ttaagaaaaa 60

aaatctataa catcggatct tgcccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggggg gccttttaaa agaaccaaag 240

tttactcccg ggggaaggca aaaaaaaaat tttttaatag ggaaacaaaa aaaaaataaa 300

tgggcggtgt ttaaaaacgg gggaaaggga aaaacccggg ggtaaccaaa ataaatcgct 360

tggaaaaaaa tccccttttg gcaaggtgga g 391

<210> 4763
<211> 277
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034a08b1

<400> 4763

tctcttgtat gtaatctcat cagtactcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaagaaaa aaaacaaaaa agaaaaaaaa aaagacaaaa 120

aaaaacaaaa aaaataaaaa gaaaaaaagg ggggcgaatg aagaacagtt tgtgcgcctt 180

cgttcgctgg gggaagaact gaacaatgct ggggggcccg ccgggactaa agaagtactg 240

gatctttcaa acgcaaaaaa aaaaaaaaaa attggga 277

<210> 4764
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034b01b1

<400> 4764

tttacgcgtc cgcccacgcg tccggggaag agggctgtca gctttcatgg ccagcaggag 60

tccctaaaca tcgcgggata tgcatggcaa caatggaacg aagacaaggg cgaggaaatg 120

atcgatccgt tgataaaacc gtcgtgctcg attcgacagg tcctgaggtg catccacatt 180

gcattgctat gcgtgcaaga tcatgcccaa gagcgtccgg acgtgccggc ggtcatcctg 240

atgttgagca gcgacagctc cagccttccc atgccgaggg cgcccaccct gatgctccgt 300

ggccgtgctc ttgagtcgag caaatcaagc gagaacgaga ggagccactc cattggcacc 360

gtatcaatga cacagttgca tggaagatag catggcaggg gcagtatata ctgaagatat 420

catgtctttc tttttc 436

<210> 4765
<211> 287
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034b07b1

<400> 4765

tctaccacgc gtccgagaaa ctcttccgag atttatttat tcgtgaaggg taccagtctg 60

atcatatatt tgactggact gtgtcgaggc acttagcaga gaataacaga ttgcgaccaa 120

gtggaaggac agctgggttg gtgggaccat ctgcagaacg ggctgaacgg attgcagcaa 180

gacaggatgg tcctgataga ttctgtagtt cagtggaaac atttgccaga agaactggct 240

ctggttctgg ccatcaaaaa aagagcttga tgacacgagg gctaaaa 287

<210> 4766
<211> 368
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316034b11b1

<400> 4766

ttttgctttc ttttagtgaa ttattttgaa ttaatcctgt aattcgtagt ggttttgtca 60

ctgtaatttc tatatcttat cagtgtaatt ataattttgc aaatgctagt gggatttgta 120

gcacgccatc actgtaaatc ctagcggttc tttatcagtg ttatattcct tgtaatccta 180

gtggttattt tactgtgatg tatttgcaac tgattgttga tgttatttca tttttaaaaa 240

acnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnacnnn nnnnnaaaaa aaaaaaaaaa 300

aaaaaataaa aaaaaaaaaa actaaaaaaa accctnaaaa aaaccaaaaa aaaaaaaggg 360

gcggccct 368

<210> 4767
<211> 235
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316034c01b1

<400> 4767

ngtcccacgc gtccggaagc tatcaacctt gtgggtgctt ttaattttgt ggcatcatca 60

gataaaaacc agatggagtt cctgaaaaat tctctggatt tcattgtcga tactgcctct 120

ggtgaccacc catttgaccc ttatctcgag cttctgaaag ttcgtggcac actggcacta 180

gttggttttt ctggcgaaat cagagtgcat cctgtaacac ttaaatttgg gtgca 235

<210> 4768
<211> 81
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c04b1

<400> 4768

tttacgcgtc cggactagtt ctagatcgcg agccgacgtc ctttacattt tattggtaga 60

gctgagttgt gatatagaga a 81

<210> 4769

<211> 266
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c05b1

<400> 4769

agacgtggag gcccccgggg aaacgggggg ggaggggggc aatttacagc ggggccccgg 60

gaggtccccc agtgacccgc gagagcgggg ccgcacacac agagggacaa ctaggtcgac 120

cagagccagt ggttgcgtcc aaaacatccc cgacctgaca agaactgcgt gccactcgcc 180

agagttgcgg agagcaccgg aggatccatg gcacgttgct gatggcaata aaggagcaac 240

agctgcgcgg ggcggaagaa caaaaa 266

<210> 4770
<211> 256
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c06b1

<400> 4770

ttcagctttc cccccaccac tggtgggggg tttgggagct gacccccttag gaaaacaatt 60

cttcgcttga ttgctagata cgtgatgaga cggacctgtt taaggggccg atccatctct 120

gaagctgaca cactctaagt cgttgatttg tctgcgattt gaagacgtcg tagctgcatc 180

tgctctggtt aatttcagtg catttgcggc tgtttttatt gcggaaaaaa caccaccaag 240

ggggccacgt aggtgc 256

<210> 4771
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c07b1

<400> 4771

tctttccacg cgtccggaag ctatcaacct tcttggtgca gataattttg tggtatcatc 60

agataaaaac cagatggagt tcctgaaaaa ttctctggat ttcattgtcg atactgcctc 120

tggtgaccac ccatttgacc cttatctcgc gcttctgaaa gttcgtggca caatggcact 180

agttggcttt cctggcgaaa tcagagtgca tcctgcaaca cttaatctgg gtgcacggac 240

tctatctggc agtgtagttg gaggcacaaa ggatacccag gagatgataa atttctgcgc 300

ggcaaacaga atatacccaa atgttgaggt gataaaaata gactacatca acgaggctct 360

cgagagg 367

<210> 4772
<211> 324
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c08b1

<400> 4772

ttgtggggtt ggcttctcct ccccttccgg ttcgggttct ggttcggttc gggtccgaga 60

gtagctagcc tagtctaggg tttccgtagt tcggagagga gagaaaggga gagatccatg 120

gcggagacgg agtaccgctg cttcgtgggc gggctcgcct gggccaccga cgaccacaac 180

ctccagcagg ccttcagcca gtacggcgag atcctcgacg ccaagatcat caacgaccgc 240

gagacgggca ggtcccgtgg cttcggcttc gtcacgttcg gcagcgaggg agtcgatgcg 300

ccaggccatc gaagagatga acgg 324

<210> 4773
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c10b1

<400> 4773

cccacgcgtc cgcccacgcg tccgatggaa catatctcat gccgagtggc tcggggttcc 60

gctgaaggtg tacgcggacc ggttgtcgta gatcgtcgcg cgccatcatc attttgtgca 120

aggtcaaccg gttcgacttc caggagctca ccgtggatct tgtcaaggga caacaccgcg 180

caccagagtt caccaaaatc aaccccatgg cgcaggtccc aacaatcgac gatggaagat 240

tcaaactctt tgaaagtcat gccattctta ggaatctcgc ccccgtcttg cccgggcgttt 300

cacattactg gtattcagcc gacttattta c 331

<210> 4774

<211> 393
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316034c12b1

<400> 4774

tcgtccactc tgctcaacca agcagatcca agcagcagca gagcgccgga gggacgccag 60

gatgcacgcc aagacggact cggaggtgac gagcctggct ccatcctccc cagcgcgctc 120

cccgccgcgc gcggccaaca acaaccccaa ctccggcggg ggcggtgggg tgatgcgcgg 180

ctcggtgtac tacgtgcaga gcccgtcgcg ggactcgcac gacggcgaga ccaccaccaa 240

gggggccacg ttggtgcact ccacgccccgc gctcagcccc atgggcgtnc ccccgccact 300

cccaattctt cggtgggccg naattcttct tccagccgtt tttccgcggg gggtgcccac 360

cacaaggaca agtcggcggg gcgcaagggc gcg 393

<210> 4775
<211> 471
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316034d05b1

<400> 4775

tttcaaatcc ccaaccccga ctgacgacga gtggatctgt tccggcgctt cctgccgccg 60

tcgaccatgg cgtcttccaa ctccggcggc atccccatca aggcggaaca ggattcggat 120

ggctcggccc agagcacagc tgatatgact gcttttgtgc aaaatcttct agttcagatg 180

caaaccaggt tccaaactat gtcagagaac atcattacaa agatagatga aatgggtgca 240

agaatcgatg aattggagct gagcatcaat gacctcaagg ctgaaatggg cagcgatggt 300

atgaccccta ctaagtgaag gacgaagaat caaagccagc agacagctct gcctgatttta 360

agagaagtag cagagcaagt cgattagtct tggttccatg tcaatatcat cagccattca 420

tcactaactt aatgcatgta tgagatgnta ttcgcactgg tatatgcatt t 471

<210> 4776
<211> 253
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034d07b1

<400> 4776

tcttagagag atagcctgga gggcactgag tgtcatggat gaaaccgggg cactggtcgg 60

ggtggtgctg cgagcaaagc tcgcgagtgg gaccggagag tgcgagagga gctcacacga 120

ccgcattgct ctacgcatgg ccccgcgcat ttgggcaggc gacgaggcac actatgctcc 180

ctcaagcatc tgctgttttg tggagcacac agataggtaa gagtcccagc tgcctgctcg 240

ctcagcatgc tgt 253

<210> 4777
<211> 275
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034d10b1

<400> 4777

tctcgctcat tgcgctgtgc ctaccgctac tgacgcgcgt gacgaccgct accgacgcag 60

caaagatgcc ggccgaggag ctgcgccacg gccccgtcgg cgccttctcc tggctcggca 120

tcgccttcct caccgtcaac tcggccatgg cgatccacag gtccaaaggc gacccgtccg 180

cggtcggctt cgtggccttc tcctacctcg acctcgtact gctcttctac ttccatagga 240

ggttcgagag cgccgcgccc ggctcaccgg cgaga 275

<210> 4778
<211> 387
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316034d12b1

<400> 4778

tctaaaccat tcagttcaac caatttgagc agaattatta cactaatgaa gataagtgtg 60

atcatggttg ttgggctgat ttttatcaac ctatgcacct gcatgccaag aaatgtggcg 120

aaccatgaat ctcacgatac agtggtgcca cagaaggaaa tgcgcagtct gatgtctggc 180

actgctggaa ggaaccggcc tccgagcaat gatcaccagt gcccacttgg aacctaccct 240

aattgccaag ggatgtccca gaatactcaa gaagcagctc aagatgttgg aggaaactaa 300

ggcaaactaa gggattatga gacggaatga atcccccagt ttatattgct tttacttnca 360

cgacggagtc atttggcatg aaatatg 387

<210> 4779
<211> 274
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e01b1

<400> 4779

tttcagatct tcgtcaagac cctcaccggc aagaccatca cgcttgaggt ggagtcatct 60

gacaccatcg acaatgtcaa ggccacgatc caggacaagg agggcatccc cccggaccag 120

caacgcctta tctttgctgg caagcagctg gaggatggtc gcacccttgc tgactacaac 180

atccagaagg agtccaccct tcaccttgtc ctccgtctta ggggaggcat gcagatcttc 240

gtcaagaccc tcaccggcaa gaccatcacg cttg 274

<210> 4780
<211> 281
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e02b1

<400> 4780

tttccgccgc gccggccgcc gccgggaagg gcggcgcgaa gacagtcgcc aatctgccca 60

ccaagccgcc tcctcctggt caggctgcta atgagtctcg tggtggtggt ccacccctcc 120

gtggaggata tgggcgcggt gaacgtggct caggcagagg tggacgagga gggtatggtc 180

agaatcgcga ctacggcagt gaagacacaa atggctacag gggaggttat ggtgccagaa 240

ctggaggtga ggaaggcgcc caggatagag agagggcccc t 281

<210> 4781
<211> 327
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e06b1

<400> 4781

tgtaattttc tgagggattc aaacccctgt acatcaggac aaagggaata agactatggg 60

agattgggaa gcaccccgtt gtcacctttg gttagaatat gcttatgtgc aagcttagat 120

gcaaaaaagc cgcatcctga gtctcttttg tagtcgaccc tttccctagt tgactgtcga 180

tgaaccgttg tcatttatga gtccgatgaa ccgttgtctt tatcttttga caatttttat 240

gtcgttgcta ccatttctga atgtgaacag catggatctg tgtccagttt gctttaatct 300

gtgcactcga ttgttttttc cctctta 327

<210> 4782
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e07b1

<400> 4782

ttttgcagct tcccattcct cgccgccgcc gccgcttcgt acccgctcga agccgacccg 60

accatggcgg acgtcgacgt tgacacggag gtggccgtcg gcgcgcagcc gaagaagagg 120

acgttccgca agttcagcta tcgcggcgtg gatctcgatg ccctcctcga catgttcacc 180

gacgaccttg tccagatgtt ccccgctcgc gcccgcagaa ggttcaagag gggtctcaag 240

aggaagccca tggcgctcgt caagaagctg cgcaaggcga aaaaggacgc tcctgctggt 300

gagaagcctg agccagtgag gacacatctt cgtaacatga tcattgtccc tgagatgatt 360

ggcagcctta tcggtgtcta caatggcaag acctttaacc aggttgagat taagcctgag 420

atgattggcc attacctt 438

<210> 4783
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e08b1

<400> 4783

tcttgcagct tcccattcct cgccgccgcc gccgcttcgt acccgctcga agccgacccg 60

accatggcgg acgtcgacgt tgacacggag gtggccgccg gcgcgcagcc gaagaagagg 120

acgttccgca agttcagcta tcgcggcgtg gatctcgatg ccctcctcga catgtccacc 180

gacgaccttg tccagatgtt ccccgctcgc gcccgcagaa ggttcaagag gggtctcaag 240

aggaagccca tggcgctcgt caagaagctg cgcaaggcga aaaaggacgc tcctgctggt 300

gagaagcctg agccagtgag gacacatctt cgtaacatga tcattgtccc tgagatgatt 360

ggcagcctta ttcggtgtct acaatggcaa gaccttcacc aggttgagat aagcctgaga 420

tgattg 426

<210> 4784
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e09b1

<400> 4784

tctctctctg gcaacgccag cccctctgca gaggacctga catccattct tgagtcagtt 60

ggttgtgaaa ttgacaatga gaagatggaa ctcatgctgt cccaagtgaa gggcaaggac 120

atcaccgagc tcttggctgc tggtagggag aagtttgctg cggttccatc tggtggtggt 180

ggtgtggctg tttcagctgc tgcccctgct gctggaggtg ctgctgcccc tgcagctgag 240

tcaaagaaag aagagaaggt cgtggagaag gaagagagtg atgatgacat gggcttcagt 300

ctgttcgact aagttgtggg gcatcttgtg tctgaagtat ctatacttgg ccaggaaact 360

agagtcaatg atgttttagc ccttatttag ctgag 395

<210> 4785
<211> 489
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316034e11b1

<400> 4785

tctcccgacg ctcaagcccc cagacgccgc agcgccgcca ctccacccgc agcggcaacc 60

atggcggtcg gcaagaacaa gcgcatctcc aaggggagga agggtagcaa aaagaaggcc 120

gtcgatccgt tcaccaagaa gcagtggtat gacatcaagg cgccgctgct gttcaccagc 180

cgcaacgtcg gcaagaccct cgtgtccagg acacagggta ccaagattgc ctcagagggt 240

ctgaagcaca gggtgttcga agtatctcta gctgatcttc agaacgatga ggaccaggcc 300

tacaggaaga tcagactccg tgctgaggat gtgcaaggga tgaatgtcct cacaaacttc 360

tggggcatgg acttcaccac tgacaagctc aggtctcttg tgaggaagtg gcagacactc 420

attgaggctc agtggatgtg aagaccactg acaactacat ngctcgcatg ttcaccattg 480

gcttcacga 489

<210> 4786
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034f01b1

<400> 4786

actgtcacct accccgattc cccttccccc gtgcgatcga tactctctag ggttcatcgg 60

cggtcacacc aagcaaggat gactacttca aggcgtcttg ctgacaggaa gagtgcgaag 120

tttcagaaga acgtcacaaa gaggggctca gtgcctgaaa ctactgtgaa gaaggggaat 180

gactatcctg ttggacctat cgcgcttgga ttcttcatct ttgaggacat aggatcatcc 240

ttgtttcaga ttatcaggac ggatactagt ggtgggacgg cttaatatca agctgaaaac 300

aagacgatca ttatcagaga tttattttat ccatgtgtct gggacgcaat atcatatctg 360

taccctgtag caaacttcaa ccctgatgat gttatgtaga gatttaaatc ttgtgcagtg 420

tgcgattacc tgctgatact aaaaacctag tgtaaactag aaactaaatg gtgcaagtac 480

gaacttt 487

<210> 4787
<211> 225
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034f04b1

<400> 4787

tttcacgcgt ccgaaaaaaa atctttctag aaaaggatat gtaaaaacaa aacaaaataa 60

aacaaaataa ttatgccaca atttgatcaa ttttcatttt ttaatcaagt ttcatggttt 120

ctttttttt ttataaattt ttatttttt attacttatt ttttttacc aaaagtttgt 180

tacaacttaa aatttagaaa aaaaaaaata atagttaata ataat 225

<210> 4788
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034f09b1

<400> 4788

tcttggcggc gcgcgcatag gaggcgaatc agcagcggaa ccaagccgcc gacgccacca 60

tgggtatctc gcgtgactcc atgcacaagc gccgggccac cggtgggaag cagaaggctt 120

ggaggaagaa gcgaaagtat gagctcggcc gccagccagc caacactaag ctttcaagca 180

acaagacagt gaggagggtc cgtgttcgcg gaggtaacgt gaagtggagg gctctccgtc 240

ttgacactgg taacttctca tggggtagtg agtgctgtga cccgcaagac ccgtctctgg 300

atgtggttta caattcgtca aacaatgagc ttgtgaggac tcagaccctt gtcaagaat 359

<210> 4789
<211> 388
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316034f12b1

<400> 4789

tcgtaccacc aacaaggact attcggactt ggcccagacg gaggacatca acgcgggcgt 60

cttcgccacc gacgacttcc gcatgtacag cttcaaggtc aacccatgct cccgcgccta 120

cacgcacgac tggaccgagt gcccccttcgc ccacccgggc gagaacgcgc gccgccgcga 180

cccgcgccgc gtgccctact cctgcgtccc ctgcccggac ttccgccgcg acccgcaggc 240

atgccgcaag gggcgacgcc tgcgagtacg cgcacggcgt cttcgagtca tggctccacc 300

cggcgcaata ccgcaccagg ctctgcagga cgaggtccga tgcccccgcc ggatctgctt 360

tttcgcgcac ggcgccgnca gctcgggg 388

<210> 4790
<211> 301

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034g01b1

<400> 4790

actgtatgag ctagcaaact cacacgagct agcaaaccag cccacacgag ctccatcgga 60

tggggtcctt cgccagagct gcgcgcttcc tggtgctcct ccagatcgta ctgttcgtca 120

tctccgacgt gctcatgagc gggcccgtct gccatggagc ccgcccaggg atcggtggtg 180

gagctctcga tcctaatcgt ccgacggata cagtgccgcc tggtgacccc tacaccggtc 240

gtctgtgcag cagcttgtac aggtgctcac caagtgatca gacctgatac ctcgagaaac 300

a 301

<210> 4791
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034g04b1

<400> 4791

tgtaggcaag ggcaaagggc gctgaggggt ggaacgcgac gggcgagttt ttccgtggct 60

cgtgacgagt ggaggaggca ccctatggtg gggaaccagc tgcgccacgc cactccgggg 120

ctaggcatcg ccatcgtcgc ctttgggatc taccttgtcg gggaggccgc ctacaaccgt 180

ctataccgac ccgccggaga caaccaccac tagatcttcc ccagaggtaa agtagatgga 240

gcaaactgta ccgaagcacc aatgttgatc ttttccggat tgatctcata acgcctgcat 300

gaccaccttg taattcgcga tcaggagacg tgctggtggt tcaactaggg ttcctggaac 360

gcgtgttctt taaatctgat actattttga gggtatactt ggcatctgga catggcattg 420

attatatttt ttttg 435

<210> 4792
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034g05b1

<400> 4792

tctcacgcgt ccgggccgtg ttcctgctcg tgcaggggct ggtgtacctc atcctcacca 60

actcctccga cgtcttctcc aagagcaaga ggctccggtc cctcagcttc cggcccatgc 120

ggtccatgag cgtgcgccgc gtcctggcgc cgctctccga cgtccccgtc ggcaccgacg 180

acgactctcc tttgccttcg tcggcttctt cgtggtcgtc gcgccgctgg ggtagccgca 240

aagaggattg agcagcttgg agtcagcggc tggttagttc tgacaccaaa tgggtagata 300

ctagcgagct tgataattct gttctgaact gtcctgggtt tgttatcggg gtttgaccgt 360

ttgagattta agaatggtat ttgttaaaaa aactcaacat gtaaatcagg ttgggtgggg 420

ccttgtacat atgttcattg atttgatcgg gatgatgaat ta 462

<210> 4793
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034g12b1

<400> 4793

tttctccccc gtcaaggact attcggactg ggcccatact gtggacatca acgcgggcgt 60

ctgctccacc gacgacttga cgatgtacag cttcagggtg aacccatgct ggcgcgcata 120

cacgcacgac tggaccgaga gccccttcgc ccacccgggc gagaacgagc gccagttcga 180

tccgcgccga gtgacatact cctgcgtgcc atgcccggac tttcgccaaa accaataggc 240

atgccgcaag ggcgacttct gcaagtacgc gcacagcgta ttagagtcat ggctacaccc 300

cgtgcaatac cgtaccaagc t 321

<210> 4794
<211> 154
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034h02b1

<400> 4794

tgtttgagag gcctttggac gtgcccctct cactgcgcct gtgactttct acactcgtgc 60

ggccagcctt acatcaagtc gtgaacggtc actgagcaaa tttgtctcct tgttttggcc 120

acttttttct ttccgtaaat ttggaattat tttc 154

<210> 4795
<211> 349
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034h03b1

<400> 4795

tgtgtcatct tcgacagtcg agcttacagc attacgaagg atgtcttgca gctgtggatc 60

aagctgcggc tgcggctcaa actgcaactg cggcaagatg taccctgact tggaggagaa 120

gagcggcgcc accgtgcagg ccaccgccgt cgttcttggc gtcgggcctg cgacggtgca 180

gttcgaggag gccgccgagt ccggtgaggc cgcccatggc tgcagctgcg gcgccagctg 240

caagtgcgac ccttgcaact gctaaggtgc aagcggtcga tgcgcttgtg gtgattgtgc 300

cgtgtgtgat cgagtgcgaa taatgaaacc ggccctggcc gtctggttg 349

<210> 4796
<211> 64
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034h04b1

<400> 4796

tccacgcgtc cgatcgacta ttggcgtagt caacaaaatc ccggctcatg tacgagcatt 60

cgac 64

<210> 4797
<211> 138
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034h06b1

<400> 4797

tttttacggt ttgctgttgt tggtcggata ttgagtttaa tcttttcttg ttgggaataa 60

tccaccaccc aaggggatca aggtttgtag aatattgttg tttgttcaaa ggctataata 120

aaaagtgttt ctcttttt 138

<210> 4798
<211> 385
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316034h11b1

<400> 4798

tttagactag aggccaagat cgccgatttt ggcttgacga aagcctttga ctaccacaac 60

aacacccatc ttttcacgaa cacgctcgct tttacccccg ggtacgttga tccacagtac 120

caggccacga tgcagccaac gaccaagagt gacgtgtaca gctttggagt ggtgctgctg 180

gagctagtca ccgggaaacc agccattctt tcggacccag agcccacaag catcgtccaa 240

tgggcaaggc agcggctggc gcgcggcaac atggagggca gtggtggacg cgcgaatgca 300

gggtggttat gatatcaagg ncgtgtggaa ggtggcggat attgcactca aatgcaccgc 360

aaggggtcaa cacatcggcc cacca 385

<210> 4799
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a01b1

<400> 4799

tttggttatg tatgttgccg gcaaagttcc tgatgaggtg caggcaaagc agaggcagct 60

gaaagccatt ctgaataaac tgaccccaca aaactttgac atgctttttg aacaagtgaa 120

agaggcgaac attgacaatg tgtcaactct tactggggtg atttcacaga tatttgacaa 180

agcattgatg gaaccaactt tctgtgaaat gtacgccaac tactgatccc atttgtctgg 240

tgcactgtca gactttagtg aggacaatga aatgattaca ttcatgagac tgcttttgac 300

cagtgccaaa aggagtt 317

<210> 4800
<211> 179
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a02b1

<400> 4800

tggcttgcga agggcaagaa gaaagaaact gaggcggagc aagggcagcc aaagcagcag 60

cgagccacac cgaacaagcg gacgccacaa aacccggaca cgcgactggg agacgggcaa 120

gaggagaaca tcgaccaagg gacaagccca accggggaga caccacagaa agaccaaca 179

<210> 4801
<211> 122
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a04b1

<400> 4801

agctcctgcc catggtcccc tgactcgccg agggatcacg gagccgctgt gatgcagggg 60

gatgcactgg cgcctaccgc gcccttgcac ctggcacatc cattgccccc ccctgctcat 120

tc 122

<210> 4802
<211> 501
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a07b1

<400> 4802

ttttctgctc caagtcaacc aaagttggag atatcattac cgtagagaac aagctgatca 60

cggtgaaacc tgaaaccaga gtcctgaaag caatgcagct gatgacagaa aagcgtatca 120

ggcacatccc ggtgatcagc ggcacggaga tgatggggat ggtctccatc ggcgacgtgg 180

ttcgcgcggt ggtcagcgag cacaatgagg agctgaaccg gctcaacgcc tacatccagg 240

gtgggtacta ggacccagcc gttttgcagg gcgtcccttt gatgtgaact ctacaataac 300

gaccagggtg atgatgacga aataggccgt gtttcttcgc ggacaatggc tgttgaactt 360

gaatctgcgt gtgtgatgtt ttcctgctta tttagtgcat atttccgtgg ccgcgccgcg 420

ccgggtgctt gtttttggag cgtatagacc atccatctta gctgatggtg atagacgcat 480

aataaagctt gggagtgacc c 501

<210> 4803

<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a08b1

<400> 4803

ttggtgccgt cgtgagggaa ttctttttta ccccttttt ttgacttttt catcgatgca 60

atttgtaaag tccggttgaa tttatatgct gacttgtgtg cgaggaaggg atgtttgacc 120

catgtatagc ttctggtagc tgcagccgat gattctttca tatgttgttg accgatctgc 180

tcaccgccgt ttgctatgta taattcaaag agctaattga gtgctgtact gttcactcct 240

actcaaggtt gagtaagagt aaccccgcgt acattttagt gaactataca ataactacca 300

aag 303

<210> 4804
<211> 100
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a09b1

<400> 4804

tgtgtctgcc cacgcgtacg cccacgcgtc cggccacgcg tccgaaaaaa aaaaacacaa 60

acacccaaaa aacaaaaaaa aaacccaaaa actccacccc 100

<210> 4805
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a10b1

<400> 4805

cccacgcgtc cgtccacgcg tccgtccacg cgtccgtaaa aaaaaaaaaa aaaaaaacca 60

aaaaaaaaaa aaaaataatt ataactctct tctac 95

<210> 4806
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b01b1

<400> 4806

tttgtttctg ctactggtgc tgcagcaatt tgttcataac aggtggccct cacggaccgt 60

ctgaaagctg gagcagtctg tgcatctgcg aagcagctcg aaacaaagaa atgaatcctt 120

gccaggaact caaaagacgc agaacatgtc ggtcgtagtc tagttatacc gaatttagca 180

acaaactgaa cgagcaggtg atgacggtaa accggatgct taggattgag aggtgtttca 240

gtctggaggc gtggagtgaa gtaggaagag tgtatagcaa cagtacataa tctcagagca 300

gctgttaatg ttaattcatc catcctatta ttgattgatt ccaagatagt gtagtacata 360

tggaataaat tcggctgctc ttgccatcat ctttattgtt gtcagctccg gtagaaaaga 420

tcgtgttaac aaaaaggcat gaaattatgg aataagttat tggttgttgc catc 474

<210> 4807
<211> 81
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b02b1

<400> 4807

tggctgcctc tacgggtgca gctagaatct gagcattacc tgtggccctc acggccctc 60

cgaacgctgg cgcagtgtcc g 81

<210> 4808
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b03b1

<400> 4808

tctgtttcgc gtgggggata tcccagcaag cgtgcctttg cctactttgc cctgagtggt 60

cggagatacg catatgcatc actggtgccc ctgctcgtct tgaagcctgt gtcgagcatg 120

tcagcaagta aggatgtgct tgcacttgct tccctcgtgg ttgatctatc cagcattgaa 180

cccggtagca cagtgactgt caagtggcgt ggaaagccag ccttcatacg gctactgaca 240

gactatgaca tcaagctggc caacagccta gatgctgcat gcctgcacca cccagatcaa 300

gacactgatc gtgtgaagaa cccatagtga ctgacggtta ttggagtctg cactcatctt 360

ggtggcattc ccctttccaa ctctggagac 390

<210> 4809
<211> 146
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b04b1

<400> 4809

ttccttctcg cccggaagaa aaaaaatcgc gttcgtggag tttactcaga cgcgtcgcta 60

atatgacgtg ggaaacatgt gataggttcg gtgccatacc gagctacttg gaaatgctgc 120

ctggactctt acattagact tgaaca 146

<210> 4810
<211> 207
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b05b1

<400> 4810

ttgatttttt gcgttctatc cttgcaattt tagctatcaa atctgattca gagatgtttt 60

tactcctctt ttatgcatgt ttatatgccc ttttgatgaa caaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaataa aataaaaaaa ataaccaaaa 180

taaaataaaa tggggcggac ctttaaa 207

<210> 4811
<211> 135
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b06b1

<400> 4811

ttgcattttt tgcgttctat cctcgcaatt taagctatca aatacgatac agagatgttt 60

ctactcctct ttcatgcatg tatatatgcc cttttgctgg ataaacaata aaacctaata 120

cacacactgc ttaaa 135

<210> 4812
<211> 499
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b07b1

<400> 4812

tttttgctca gcatcaagat acagcagcac ctccccttcta cctcgactgc tttgcatacc 60

cacttccgga tgcaaccgca atcaaaggct gccacgaaga tcaccctact tgccgtgggc 120

cccttattat ggcaccgtgt cagctggaac ctacaactgt ttcatagcag ggcggctgga 180

ccctcaacac cgactacagc atgctgtgtg tacggcaaga agttcaacgc tgacgatgag 240

atcgtattca aggactgcgt ccgacgcgca cgatgtggtc gaggtcagca aggccggcta 300

cgactcctgc agcatcgacg gcgccatcaa caccttcaaa tctggcaacg acgtcatccc 360

cctcagcgcc accggcaccc gctacttcat ctgcggcatc actggccact gcagccccac 420

cgccgcggcc agcatgaatg tcatgatcga cgttcgctct ggctcctctt cgccttcctc 480

acccatgcca gccgcaagt 499

<210> 4813
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b08b1

<400> 4813

tttctgtcca cgcatccgga ctcatcgctg ccacactgaa acgttgtctg agtccaattg 60

gcgcctgctg gatgcaccct tgtgaatggg gggcgatatg atcaccgata ttgcccgtggc 120

cagcatgtgt ggcaccgagt tggcagtaac ctactgcgta aacacacaga gcagaacacc 180

cctatgctcc ttaagcacta ggtgcaggtg gcctacgaaa aacagcgtta tatatgagag 240

gccgttcaag ctcctatcaa ccgtcccaga attgctgcct tgataaactg acgcctcaca 300

ctccagcagg atttacctgt gccgtacgaa ctctaagtgt agcacaaccg tcgtccttcc 360

caggg 365

<210> 4814

<211> 107
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b09b1

<400> 4814

ttccacgcgt acgcccacgc gtccggggac gcgtccgtaa aaaaaaacac cacaaacaaa 60

aaaaaaaaaa ccacaaggat caacaaaccc tacaacgaga gcggcaa 107

<210> 4815
<211> 117
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b10b1

<400> 4815

tttttctgcc gacgcgtggg cacacgcgtc gggaggcgcc tatgacaaag acaacaccga 60

tactgccaca ggaagaccac gaggaggagg cagccgatca gccaggcgag gcacacc 117

<210> 4816
<211> 472
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c01b1

<400> 4816

ttggatcaat cctggagatg ctttggtctc acgtgctcct gatattgcaa aatttcaact 60

ggaaatagat agttcatctg gcaactttgg tgcaacatct tctctccata gatgtgcatc 120

tgatgacttc catttctcgt tttggttagg agttcccacg atgggatggt tacaaacttа 180

aagtccaagt gactataaaa gaaacaacaa aaacatagta aaatgtataa aattacgcag 240

ctttcccccc accactggtg gggggttttg gagctgaccc cttaggaaaa caattcttcg 300

attgtttgct agatacgtta tgagacggac ctgtttaagg ggccgttcca tttctgaagc 360

taacaaactt taagtcgttg atttgcctgc gatttgaaga cgtcgtagct gcatctgctc 420

tggttaattt cagtgcattt gcggctgttt ttattgcaaa aaacataact cc 472

<210> 4817

<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c02b1

<400> 4817

tggttctctg ccgccgccgc tcccagatcg cggggtcccg ccccagtcgc cgtagccgct 60

cccatatcgg ggcgagcgag gaggatgatg ggctggtccg ccccggtcga cggcgccgct 120

gccaaatcgg ggcgagcgag gatcgtcggc gtcgccgcca gacctctgcg gaggcgcctg 180

tccctctgcc gggcgacggg gatacgccgc ggcacggccg tcggcccccc gccccgcgcg 240

agtcgctgcc gtaggatatg cttggggaga tccttctcct tctggcaccg cagccgtcgt 300

ccggcctgct ggcgcccttg gtctccaggc gctggcgagg cctttccacc gaccccaact 360

tcatacgtca gtttcaagcc cgccgcagga gctggaagcc gcccctgc 408

<210> 4818
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c03b1

<400> 4818

tgctctcaaa atgtcagtct ggtatagagg ggacgttctt gtcatagaga cccattagac 60

cgaaagcctg ccagggtatg ggttggccgc gcagt 95

<210> 4819
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c04b1

<400> 4819

tggttctgcg tggcttctcg gagaagccta ggtacaccgt gaagcccacc aagtacgccg 60

gctgaccgag gagcggtggc gcaccccgct tcatccacca gcctcgctag gttgggatgc 120

caagcttaaa gaatcgagca gatcctgcgc cttttctgcc tgcagtgatg cattgctctg 180

ccttcttcta atacaccatc tgtcccaaaa ataaatgtct caaacttaat acaacttttgt 240

actagcccta atacaaagtt gagacactta tttctagact gacggagtag tcagtattgg 300

cgtccgcttg tatattatat taagtagaaa cgaaatgacc ttagaaaaag gcatcaaaat 360

gcaacccgat gtttagtgtg agttgccttt gaagatatgt tgtgcccagt gcgctggaca 420

agaaatgcta gtagaatgca ccctcgtt 448

<210> 4820
<211> 174
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c05b1

<400> 4820

tttctttctg gtaggaggga tcacacttgc ggtcctgcct gctttatttc atggcgttga 60

cccaagatca tcattacata ttggagaagg tctgctgctt tagttggtgg atgagaagaa 120

ccaaaaccgg tatttttcgt tgagggctcc aaaaaagaaa gaataacaag tagg 174

<210> 4821
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c06b1

<400> 4821

tgctttctag gacccccaag catacatacg gcgcgtgtct ttgggtact ttgctgatac 60

tgccggaggc cgaacgattg gcaaaaaggt cgccgagaag attctgaaca aaagagagcc 120

ggagctctac aagcggggag ggaccctgtc ccagctgctg cagaatggtc gccccccact 180

aaaccaagtt gctaccaact ggtcctcgga agagaaggac cactgcctgc aggagaccga 240

gaagtcgttc gcctactcag gggatctccc acgccagatt tttacctgaa ccaaacacga 300

tctgtgatac gtttcacgtt aaacattgtg aatacccagc cctgtccgag cacccgggg 359

<210> 4822
<211> 98
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c08b1

<400> 4822

ttttttaccaa acatacaaac acacataaaa aacagagaga cagacaaaaa gaaaaaaaaa 60

aagggcggcc agaataagaa ggaaccaaag cttacaaa 98

<210> 4823
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c09b1

<400> 4823

ttggaggata tgtacctgaa gccgctcaac cttggtctca ttgctgcgta ctactacatc 60

agctacacta ccattgaacg gttcagttca atgctaactc agaagaccaa gatgaaaggt 120

ctcctcgaaa ttctagcttc agcatcagaa tgcagagctt ccaagtcgcc caggcgaaga 180

ggaatacatt gagaggctag tccgtcacca gaggttttct attgacaaac ccaagtatgg 240

tgatccacat gtcaaggcga acgccctgct gcaatcccac tttgcaaggc acacggtggt 300

agggaacctg gcagccgacc agcgcgagat cctcctttct gcccataggc tgctcctggc 360

aatggttgat gtcatatcta gcagtggatg gctcactctg gctctgaatg caatggagct 420

gagccagatg gtgactcaag gcatgtggga tcgtgattct gtgctgctcc aacttccaca 480

<210> 4824
<211> 79
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c10b1

<400> 4824

ttggctggcc acatatatac ctgacgccga tgaagcttgt tttgataggg ttggtcttcc 60

tcatcagatt tactaccat 79

<210> 4825
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c11b1

<400> 4825

tttctgttca cgcgttcgtt cacgcgttcg ttcacgcgtt cgaaaaaaaa aacaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa agaaaaatta aaaaaagtaa aaaaaaaaaa agaaaaaata attgggggggg 180

gcggttttat aggttcaaag tttacttcgg ggtgtttgga aggtattaac ttttttttgg 240

ggggacctaa attaatttaa tgggggggtgg ttttaaaagg gggagacggg aaaaacctgg 300

gggttaccaa atttaatggg tttgaaagaa ttccccttttt tgcaagttgg ggaaataaat 360

aaaggggccg aacgtttggc cttttcaaaa attt 394

<210> 4826
<211> 307
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d01b1

<400> 4826

tggatgtttc ctgtgatgat tgtgaggata ggtgggctga ggaggaagaa gaaacaccca 60

ttaagccaga gactggctag aagagggcgg ctggaagcgt gttgaagacc cctgtttctg 120

acaagaaggc caagatcgca acaccgtcag gccagaagac aggctacaag aagggagctg 180

tccatgtggc gactcctcac ccggccaaga aggcaggcaa gaccccggct accaccgaga 240

agtcgcccaa gtctggatgt gtggtcgcgt gcatgtcgtg catgaagaca ttcaacagcg 300

agggcgc 307

<210> 4827
<211> 355
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d02b1

<400> 4827

tggttatgca ctagcttcaa gaaggccaag actgactctg tctaataagg ttctgacgtt 60

gaggatgatg gccaggagga cgaggtgtaa atagttgatg agggaacagc agtggtgcaa 120

accagcgttt gctgattagg gtttagcttg ccatgacgat gtcctcatta tgtaatgcta 180

tgtaaggaga atgtttagat gcgtactcct gggctgtggc atgctagaga tgcatctgtt 240

tgactatcaa cgaagaaaag ctttaaaacc ctcgactgct tttctttctt ggactttcac 300

atcatgtgta tacagtcatc atgatggctt gctattaatc gcgttttgtt ttgaa 355

<210> 4828
<211> 268
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d05b1

<400> 4828

tgttttctag catcgactac ccaagatcgg agaggcgttt ctgggagaat ccgccgccac 60

gtctgccagc caggtcatcg gcaccctggc cgccctgata cctcacgata acagtatccc 120

catcacttct gagaagaaag ggccgctgtc aaagctgtcc gaatctatgg cgaggcctac 180

agccccgggc tcttcaccaa gcttctggaa aagaagagcg acaactacct aatcccctcc 240

gtgggatctg gtggaatgag gtgatcca 268

<210> 4829
<211> 206
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d08b1

<400> 4829

tctttctggc acagcctcat tgaggagtac aagctgtagg gccttatacg ctggatctct 60

ggtcaaatga accgggtgcg caaaggagag ccgccccgct ccatgtgtaa gaccaaggga 120

gcatcagggc aggcagcatg ctatgacgct attggccgta ctgccatgga agccatgaca 180

tggggtgtgg cgacaattgc gacatg 206

<210> 4830
<211> 499
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d09b1

<400> 4830

ttctggaaag ataagaacct gaaagccgaa gaaagcgagt tcttataggt gagtactact 60

acttcagcta cactaccatt gtacggttca gttcaatgct aactcagaag accaagatga 120

aaggtgtggg tgaaattcta gctgcagcat cagaatgcag agcttgcaag tggcccaggc 180

gaagaggaat agattgagag gctagggcgt caccagaggt tttctattga catacccaag 240

gttggtgctc cacatgtcaa ggcgaacgcc ctgctgcaat cccactttgt aaggcacacg 300

gtggtaggga acctggcagc cgtccagcgc gagatcctac tttctgccca taggctggtc 360

ctggcaatgg acgatgtcat atctagcagt ggatggctca ctctggttct gaatgcaatg 420

gagctgagcc agatggagac tcaaggcatg tgggatcgtg aatctgagct gctccaactt 480

cacacttgac cagggacct 499

<210> 4831
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d10b1

<400> 4831

ttttttctgg tgtacgacac gctggagatc atcgagaggg cgcacctcgg cgacatggac 60

tacatcaagc acgcgctcac cctcttcacc gactttgtcg ccgtcctcgt ccggatcctc 120

atcatcatgc tcaagaacgc atgcgacaag tcggaggaca agaagaagag gaagaggagg 180

tcctgaacgt gttgtcctct gcacatcgta gataccatca ccgtcgccgg cgctactggt 240

tccacctcca ctgctaagta cttgtaggaa ttaagctggc gcagtaactt gtcgccgtgc 300

caccttgtt aattcgcgat ctgggtcgtg tgaacctcgt gtgagttcgc tgctgctgat 360

gaagcttttg cagaccctgt ctgcgttccg g 391

<210> 4832
<211> 87
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d11b1

<400> 4832

tcgatgaggt attttgtact catggagcgg caaagtatta taaggatatc acaactagca 60

cccgatagca ggacctaatg ggtactg 87

<210> 4833
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e02b1

<400> 4833

ttcgtttgcg cactcatcgt gatctcaacc aggcgcgcac tcctcctcct cgccgtcgtc 60

gtctccggtc caccgccgat ccacgcgacc atgtcgtcga agaggaagac cagggagccc 120

aaggaggaga atgtcaccct tggaccggct gtccgagagg gagagcatgt ctttggcggt 180

gcttacatct ttgcatcctt caatgacact ttcatccatg tgactgactt gtccgggagg 240

gaaaccctgg tgcggatcac tggtggaatg aagggcaagg ctgatcgcga tgagtcttca 300

ccctatgctg ctatgcttgc atctcaagat gttgctacac gttgcaagga gcttggtatt 360

accgcactgc acattaagct tcgggccact ggaggcaaca ag 402

<210> 4834
<211> 76
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e03b1

<400> 4834

tttcttactc gtccgcccac gcgtccggtt ctagatcgcg agcggccgcc ctaaataaaa 60

tctccctggt ttaact 76

<210> 4835
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e04b1

<400> 4835

tttagtgtgc tctccctccc ctcctggtcc tggagccgcg actcatctga accctaaacc 60

gtatatcccg gcgcagcagg agcgagatat cctccagcaa gcaagcatga gtcgccaccc 120

gagcaccaag tgggcgctga ggctggacaa ggtttacctg acgattgatc tgcccgacgc 180

caaggatgtg aagctcaact tgaggcctga tggccatttc aacttctagg caaaggcccc 240

tgctgatggc atgcagtatg agcttgacct tgagctcttt gatgctgtca gcgttgagga 300

gagccaagcg gctgatgccc cgagggctat atgctacctt gtcaagaaag ctgaggccaa 360

gtggtggcct aggctgctca agaaggaatg caggccgcct gtgttcctca aggctgactg 420

ggataaatgg caagatgagg atgatgaaga cgctggattt ggtgactttg gtgatatgga 480

cttctcgaag ctggaca 497

<210> 4836
<211> 251
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e05b1

<400> 4836

ctcgtccgaa gaagattaga cattaatagt cacttgtttg atggggtgtg atccacgaga 60

caatgatctt gcgaatttcg ttttcatgat atgggtcgca taccactagg tttagttgga 120

aatcttcgtc aatccttaga tacattcgct ggaaaacccc attacgcatg ttttgaccac 180

acaacccggc ggtgggacta gaatgcacac ccttgttgct taacatgaga tctttaaaac 240

tgatataaaa a 251

<210> 4837
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e06b1

<400> 4837

tttgttttcg atggtgtctc atgccccgtt ggaaactgtt catcttgtag cggcactttg 60

ctcgttgtcc ccttcctttt ggatcgatcc ggccttcggc ggccatcaat tgcgccgggg 120

tcgccgatgg gttgcctgca ggcgagcctg ataccggtgt cgtcgaccag gcacggagga 180

ggaggcttgc ctggagcgta acttagctat aatgctcggt cgatcctgct gcttcttggg 240

gggcaaggaa aaagattaca ccgaggctta ctctctacga ccgcaccagg ctgagccaga 300

ttatttccgg tgacgcacac catggatccc cagacatttg tgag 344

<210> 4838
<211> 112
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e07b1

<400> 4838

gccggcaggc accggacctg gaaattcttg ggttgaccca ctttgcttcc aacgcgacac 60

gagaaaacca gggggggccc caatctctga ctccgccgca cgccgcacgc ac 112

<210> 4839
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e08b1

<400> 4839

tcttttgatc acacacacac actcacacac acacacacac acacacacac acacacatgt 60

ggcgttcgtt tctgtagcta ttccggcaca ttggtgcctc tgatctatca actaatctga 120

aaaggttcgg tttatcactc taaaacaaat agcactgaca caaaggatgc caaggacaac 180

cttaaacctg atggtggatt ctctttcttt gccactgctg gaactgatgg caactactat 240

gaatcgaaac tggattatga ttgacaacat taaatggtgt ggcaagcata gccatttgct 300

ggtgttaggt ccatattcta gaatttggaa aaagcctacg tcca 344

<210> 4840
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e09b1

<400> 4840

tctgatcatc ttaacaagta gtgtagcata gaaacttgat acaaataatt agcaggaaaa 60

tgccctttg tcaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaggggg gggccctttt aaaaaaccaa attttacctc 240

ccggggcttg aaaaaaaaaa ttttttttaa aggggaacaa aaaaaaaata aactggccgg 300

tttttaaaaa agttgaaacg ggaaaaaccc ggggtttccc aaattaaaaa gctttaaaaa 360

aaatcccctt tttcc 375

<210> 4841
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e12b1

<400> 4841

tttgcttact agcagcagcg ctctcttctt gctcttcgct atctagctcc actttgctcg 60

ttgtcctctc cctcttggat cgatccggcc ttcggcggcc atgaattgcg ccggggtcgc 120

cgatgggttg cctgcaggcg agccggatac cggcgtcgtc gaccagccac ggaggaggag 180

ctgcctgtag cgtagctgag ctatagtgct cggtcgatct gctgcttctt gggggcgagg 240

aagaagaata accgaggctt actctcgacg acagcacaag gcggagccag ataatttccg 300

gtgacgcaca ccatggatcc ccagacattt gtgaggctct caatcgggca gcttggcctg 360

aggctccccc gcgcatgtgc cagaaaggct tgccactgcg agatccggct ccgaggcttc 420

ccggttcagt tagctccggt gccctctgaa aattcttc 458

<210> 4842
<211> 164
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f01b1

<400> 4842

tggctctagg gagttgatct gtattccacc atcacctgtg tcaggtttga ggagctcatc 60

atggacctct tcaggaagtg catggagcca gagtgaaagt gcctgatgga tgccaagatg 120

gacaagagca ccatccatga tgtcgagctt gatggaggtt ccac 164

<210> 4843
<211> 84
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f04b1

<400> 4843

ctgagggacg ggctctcata gatgagaagg gttccatttc cgtgcttgat gttcgtttgg 60

cgccaagatg tatcgcagtg taga 84

<210> 4844
<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f05b1

<400> 4844

ttacttcagg tcttagattg ccgttgcatg gagtagacag tatgtcggcc tttagatgtt 60

gaaggaggag ggtggttcct ttgtgtttac agcactttta agttgataac ttatgatcgt 120

gttggtgaaa actatgcctt tgtcacattt tgctcctgtt aagggaaagt gctactgttg 180

tgagttttgt tccccagttt gagatgaatt tcccttgtcc tgaaataaaa caaatacaga 240

agagaatgat aataactaag agtaggatga taattaaaca gaaaaaatca atcaactgca 300

ctg 303

<210> 4845
<211> 294
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f08b1

<400> 4845

tttccctgaa acaaaaaaaa aaaaaaaaaa gggagagaaa aaaaaaaaaa aaaacaccaa 60

aaatgcaaaa aaaaaaaaaa aaaaaagaac gcgaccaaac aacagaaaca aggggcgccc 120

gccgcagagg acccaagctc gcggccgggg gccagcacca aagaagaacc gaaagggggc 180

ccccgaaagc caagcaaacg gccgcaactt aaaaaccccg cgaacgggga aaaccccggg 240

ggcccccacc caaaccgcca gaggaaaaaa ccccccttgg ccacaggggg aaaa 294

<210> 4846

<211> 507
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f09b1

<400> 4846

tttcttattc ctaggattct tgagcttgct gaagagctgt gcatgccgct tgctgccgtc 60

aagtactctc gtgggatgtt catcttcccc ggcgcacagc ctgctcccca caggagcttc 120

tctgaggagg ttgatgtcct gaaccgctac ttcggccacc tgaagtctgg tggcaatgct 180

tatgtgatcg gagacccagc gaagcctggc cagaagtggc acatctacta tgccaccgag 240

caacctgagc agcccatggt caccctggag atgtgcatga ctgggctgga caagaagaag 300

gcctctgtct tcttcaagac tcaagctgat ggccacgttt cctgtgccaa ggagatgacc 360

aagctctctg gaatctctga cattatccct gagatggagg tctgtgactt cgacttcgag 420

ccctgcggct actccatgaa cgccatcaac ggatctgccg tctccaccat ccatgtgatc 480

cccgaggacg gcttcagcta cgcgagc 507

<210> 4847
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f11b1

<400> 4847

tttttggaga acaacaggag caaccagcag gctcctccac caccgccagg gtacccgacg 60

gcggctgcgg agcaggacca ggtcggcggg aagaaggggc gccgggcgag caccaaatcc 120

aggggcgaga agggcttcat cgagggatgc ctcgccgcac tgtgctgctg ctggatctgc 180

gagatgtgct gcgactaacc ggccggccgg cgaggccgct gctggctggc acaagacctc 240

ggtgctatag tacccacgag gaggaggagc gtatgcgtat acagagagag aattgttctt 300

aatttcagtg cccgttgttt taggctctat acagtatata ctcctaagtt gatgcatgca 360

tgatcagtac cagtgtgaga tatcgattca tgtatccgtg ttgggtgcga tattcatgca 420

cctc 424

<210> 4848

<211> 62
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g01b1

<400> 4848

tttggttctt tcgctggggc ggcacacgag gagacgggtt gttatgctgt accgtcgctg 60

ct 62

<210> 4849
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g02b1

<400> 4849

ttgtttctcg tccgcccacg cgtccgccca cgcgtccgcc ctctcgtccg cccacgcgtc 60

cgtgctcact tactcacacg caggtttcgg cgggaggagg atcgatggcg ttcatgcggt 120

accgtgcgct gccgcagggg gaggtgaagg cggaggagtt ctgggcgtgg ctgggccagt 180

tcgacgcgga ccacgacggc cggatcagcc gggaggagct gcagcgcgcg ctgcggagcc 240

tcaacctgtg gttcgcgtcg tggaaggcac ggggaggggt gcaagccgcg gacgccaacc 300

gtgacggcgc cgtcggcagg gaggaggccg gcctgctctt cgcctacgca cagaggcagc 360

tcggcggcaa gatcacccag ctcggctcct actgataagc tgggcatgta ttaacctgct 420

gctgtaccac catcgtgtgt ggagcacgag attttttttt tccc 464

<210> 4850
<211> 500
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g03b1

<400> 4850

agcctagggt ttcctcccgc cgcccgtccg ccccacccgc cgccatggcc cgccgcagcg 60

gaggaggaag gtcttcccgc cctgctccac gtgctgctcc agtgagaaac ccaccagcgc 120

cagcccgtcc agctcctcca cctgctacca cccagagcag cggtggtggt atcatgagcg 180

ggattgggtc caccattgct cagggcatgg ctttcggtac tggaagtgcc atggcgcaca 240

gggctgttga tgctgcgatg ggtccccgta ccattcagca tgagactgtt gtcggtgagg 300

ctgctgcatc tatgactcca atggacaatg ctgctgatga caagtgtggc aacccttcca 360

aggccttcca agattgcatc aaccactacg gaagcgatat cagcaagtgc cagttctacc 420

ttgacatgct gaacgagtgc cgccgtggag gagcaactct ctaagctact atctttgctt 480

gattggagct taattgggca 500

<210> 4851
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g04b1

<400> 4851

tttgttttgc ctagggtttc ctcccgccgc ccgaccgtcc tacccgccgt catggcccgc 60

cgcagcggat gaggaaggtc ttcccgccct gctccacgtg ctgctccagt gagaaaccca 120

ccagcgccag cccgtccagc tccttcacct gctaccaccc agagcagcgg tggtggtatc 180

atgagcggta ttgggtccac cattgctcag ggcatggctt tcagttctgg aagtgccatg 240

gcccacaggg ctgatgatgc tgcgatgggt ccccgtacca ttcagcatga gactgtcgtc 300

agtgaggctg ctgcatctat gactccaatg gactatgctg ctgatgacat gtgtggcaac 360

ccttccaagg ccttccaaga ttgcatcaac cactacggaa gcgatatcat caagggccag 420

atctacc 427

<210> 4852
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g06b1

<400> 4852

attttccttc tcgtacgctt tgtcaaccga acaaaccggc ttactaaaag caaatgagcg 60

gagcacctac acaggcctag ggatgcttat ggtgaatcca cgcacataaa cacaatggcg 120

gcgccggcga tgtatcctag ggcgaccagg aaggcctccg tggacggccg ggcgtggcga 180

gtgctgcgga tggaggcgct ctgggcgcgg aaggggagcg cggcgcaaag gcttcgtctg 240

ctcaagacgc tgcggcacag gcgtatgggc ggcctcggcc tcggccacgg cggccggcgc 300

aacgaccggc tgcactacgg ctagcgggag ttctacatcg acgagacgcc ggcgttccgg 360

ttccgcaccc catccgcgcg cgtgctccgg ttcatcccct gcatcgcgcc ctccagcccg 420

gacacccccc gcgtctacgg tgacgac 447

<210> 4853
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g07b1

<400> 4853

ttctgctttc ctctaccttg caaggaagct ctcaggggac atgaccctcc ggttcgtcga 60

ggagacggcc ctcctccccg ccgacgtgac cgtcgacctc gccgcgcagc aacagattga 120

ggcagagata gcagctgcgg cggcaatgcc cctcccggat gacgatgatg acaacatcat 180

ggactgagct gatcaattgg aggctgtgcc tagtttagta gcagcatata tagtttcaat 240

caaactctta taagaagtga gacttctgta tccgtatcag acattcagta ggcatctgat 300

gacgatggtt tgtgcgatag ttccatgttt ttctcagtgg tagttgatct gagatttctt 360

tgtcgagtgc ttgtcaaaac cgaacgaatg tgaaggttaa tcggtttctt taccattctg 420

gagtgtggtg ttcattagaa aaatctaaag aaaaatccac tttttgct 468

<210> 4854
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g08b1

<400> 4854

tgtttctgag gcgcacggcc acgcacggaa ggcctaccgg gacaagagcg ggcaccacgg 60

ccacaagaca gcacaccaca ccgggcacgg gagcgggcac caccacgggc agcagcacca 120

cgggggccag atcagcggcg gcgcgcacgg gccccagcgg gacaagggaa atggcgcgcg 180

caggaactca gccgagcaag tgcacgccca tgacatgcca gaggcgaaca ctaacgatgc 240

tctccgactg ctaccagaag aagaacgatc tatgcacggt gagagatac 289

<210> 4855
<211> 210
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g09b1

<400> 4855

cggacgcgtg ggacaaaaac cgacgaacga actaaagtag ttaaggagag aaaagaggtg 60

ccaataaagc tggctaggat agataagata tatattgcag ttacaagaaa cgacagctta 120

tctaacgaca gtggctgttg ttgtgagaag gaagccccag tacgtgtact aatgcgacag 180

aaatgggggg gggcgccttg tgggttgcct 210

<210> 4856
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g10b1

<400> 4856

tttcttcaga acgtatgcac acgaaccgac gaacgtacta cgtgtttggc gagctatgtg 60

gtgccgatta agctggctag gttagtttgt ttatatattg cagttcaaga aacgacagct 120

aagctaacga cgtggcagtg tgtgagtagg aagcataagt acgtgtacta agcgacagcg 180

attgacagta gtgactagtg aatgagtgga tctgtgaatc atttttgtag atgtagagtc 240

ctggaatcag gattatgcaa ctatgattgg gtgattggta cactgattgc cagcaaaaaa 300

aatgtgatga aaacttttgg ccggtggtct taacaagtag aagtagtata gtatattttt 360

gacagttggt ggtctaacta gtaaatttac cagttgcccc acagctgtcg gattatgagt 420

cggccggcgg cggagccgtc catccgggta aaa 453

<210> 4857
<211> 347
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g11b1

<400> 4857

tgccgtctcc gacactcctc cgttgccggc gccatgatgg gtcgtgtgat ccgcgctcag 60

cgcaagggtg cggactccgc cttgaagttc cacacccacc accgcaaggg ccccgcccgc 120

ttcatgtcgc tcgacttcgg ccagcgcaac tggtacctca agggcgtgac ctccgatgta 180

atacacgacc cgctgcgtac tacgccggtc gccaatgtga ccttccgcca ccctttcacg 240

tactagcacc agacggagct cttcgttgcc gcctagggta tttacacctg acagttcgtc 300

tactgcggac gccgatccac cctctccgtt agtcacatgc tcccgct 347

<210> 4858
<211> 492
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g12b1

<400> 4858

ttcttcaata aggcacgggc acgcattttc aatggttcca ttcctgcaga tgttgtaggc 60

ccaagtgatt taggaggttt gtcgattgcc agaaacgaac cggtgaatgt tgagccttct 120

gttgatgaga acaagggttg cacattcaat agccgttcca gggttgctgt ttttaaggac 180

actgaaaaag atcgtagtga tcctgactac gatcgtaatt acaaaaggta tgttacgccc 240

cccgtgcctg actatggtgt gagcccaggc gccttcaatt ttgccgtgcc tcagtttgtg 300

cagtatggtg ttggttatat gcagtctcct agcatgccga gaaaccaacc ttctgtgtac 360

tttggtcaac ctgatttatc gatgggatct tctggaactg ctgtttaccc acagtggcct 420

accccagcaa tgatgtaccc ccattgctat gacaatcttg gccatgtgat ttctcatgtt 480

ccggtgtacc ag 492

<210> 4859
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h01b1

<400> 4859

ttgtttttcg aagaaaatga gagacagaaa cttgccattt tcacggcact tgcattctct 60

cagaaattat caggtctgcc acctgaaact gtctttcagc cattgcttaa ggacaatctt 120

gccgccaacg ggatagtgct ttcattcatt actgagttct tcaaggaata tctgaaggaa 180

aatagtctgg atgatctgat cgcactttta aagaaaggca aaatggagga caattta 237

<210> 4860
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h03b1

<400> 4860

ttcgttcaca tatgtgtatg gggccgcaag ctatggaatg atatgctgcc gagctcctga 60

cggagaaagt aggccaaaga tcgcgcatat ccgctagaag gaatatagag tgcgatctag 120

acaccccacc tacaaataaa cggaaaggcc ctccagcaag ctgttacgag gtggagtgct 180

tcagcctggc tcatactgca gcccaaactg tcttcgactg cacgggccgg ggatgatctc 240

ctcagactct tttctgcttt gctga 265

<210> 4861
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h04b1

<400> 4861

tttgtttcac atatgtgtac ggggtggaac gctatcgatg gagagcttac gcgcacctgc 60

tggaaaaaga tgaccaaaga tgtctcatat gcaccggaag gaatgtcatg tgacgatcta 120

tattgcccac ctacaaatag actgtaaggc actacaccta gctgctacga ggaggagctg 180

cttcagcctg gctcatactg catcccagac tgactatcac ttgacctgcc ggtgttgatc 240

tcactcagtg tatttgctgc tctgctgatt gctacacaca ttggcctcta tctcgagtct 300

accacctgct ggcctatagt gatgcttttg tcgtcctggc gatgggtatc atatatcctt 360

atccatgcta ttctcatcca ttgactgaac 390

<210> 4862
<211> 414
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h05b1

<400> 4862

ttggtatatg tagcgcttgt ggttttcacc gggagacatg gctaagccag ctttctcctt 60

ggtgaagtgt gtgtgcgtgt gagtttccat ggtgtgtgtt cttgtcttct taagagaaga 120

agagagaaac cacaggagag ttgtgcgagg cagctcgagg aagaagaagg ttggcgctgc 180

aagaggagcg gcgccaacaa ttggtattca gagccttgtc ggtccggagc ggtggcggcg 240

cggcaaactc catgcgagat ggaggccggc ggcgcaagga ggaggtcggt ggctgctgct 300

acggtgcgag gccgttatga ggaggagatg gtgcgcggtg atcgtcgtcg tgaagtcgtc 360

gtccgcgtta agagaaggcc gcttcatacg gcatgacacc gaggtgatcg gcgt 414

<210> 4863
<211> 58
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h07b1

<400> 4863

ttgtctccga ccacgaccac gcacggaacg ggggagggtg acaagaggga gcggcccg 58

<210> 4864
<211> 483
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h08b1

<400> 4864

cagatcttcg tcaagaccct cacggggaag accatcaccc tcgaggttga gagcagcgat 60

accatcgaca atgtcaaggc caagatccag gacaaggagg ggatcccgcc ggaccagcag 120

cggctgatct tcgccggcaa gcagttggag gacggccgca cccttgccga ctacaacatc 180

cagaaggagt cgaccctcca tctcgtcctc aggctccgcg gaggcatcat cgagccatcc 240

ctgcaggcgc ttgcccgcaa gtacaaccag gagaagatga tctgccgcaa atgctatgcg 300

cgcctgcacc ctatggctgt caactgccgc aagaagaagt gtggccacag caaccagctg 360

aggcccaaga agaagatcaa gaactagagt gccactagtc agtttcatgg gccggttgaa 420

tccatcgcgt gtcggagttt atgctattat cgtctcgttt gtcgttgaac cctattttac 480

ttt 483

<210> 4865
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h12b1

<400> 4865

tctttttatt gctagaagca gggttctatc catggcaatg gtggtgaagg ccctcctcgt 60

tgccgtcgtg gccgtggcag cgcttgcgca gctcaccgag gcagtggatc accaggtggg 120

cggcagcggc gcgacctggg ccaccagcgg cggctacgac tcgtggtcgg ggaagcagaa 180

gttctctccg ggagacagcc tcgtattttc gtactcgccg gcgcacgacg tcgtggaggt 240

gagcaaggcc gactacgacg cctgcacggc cagcatagtc gtcgccagat acaccggcgg 300

catgaccacc gtcaagctca ccactgccgg aaagcgctac ttcatctgca gcatcaccgg 360

ccactgcgac gccggcatga agcttcaggt gaacgtggac ggcgtgaccg cccgccccac 420

ctatcccagg ggccagagga gcg 443

<210> 4866
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041a04b1

<400> 4866

tttgttgacg caggtgcagc cggacgtagg catcttctac aaggccatgt ccatcatgaa 60

ctattgcatc aacggcatct tcgagaagct cgccggcgag tacgacaagc tgggccgtta 120

caacaagaag cccaccatca cttgccgtga gatccagacc tccgaacgcc tcgtcctccc 180

cggggagctc gtcaagcacg ccgtcttcgt gggcaccaag gtcgttacca agttgacctc 240

atcctgcaca ggttaggctt gaggctcgtc gcttcatgcc ttctgtgtgt acctagtccg 300

cagtgtgatg ttacaatctt cgtaaggatc tctgctgctg gcttgctggc tcgacagaaa 360

tagtgatgct ggtgcctgat caaggtgggt gatccc 396

<210> 4867
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041a09b1

<400> 4867

tccctgtaaa caaaaaaaaa aaaaaaaaaa aagagggatc tatttaaaaa aaaaaaccga 60

aacaaaacaa atgggggga ctatcacctc ggttcctcgc tttcactcgc gcttccttgc 120

tgtatcttta gctcctccaa tagataacaa caaaaatggg gggggccct tttgggggtc 180

ccacgttccc gccccggggc cgggggcttt ttccctttt tttgggggcc ccctattcct 240

ttctccgcgg gggggcttc tcaccgctgg gggggggac ccccgggggt cccccaccct 300

tttttccttt gggctccgcc tctttttcc cccgggggt tggttaaaat ggggccccc 360

ccctccgcct ccccccccctg gggccccccc cttgggggtg gggccccccc cctgggtggc 420

gttttttggg cgggggggtg ggggg 445

<210> 4868
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041a12b1

<400> 4868

tttgcggctt gggccggcgg ctggtgctct gcttccggca gtgatggccg ctggtcgtgg 60

tggtcttggc ccgtgcttgc cagatttgca gtgagcaggg tgaggatggt ggtggcgatc 120

ctgtggtggc tcgtcatcgt gggcgtggtc ctgtaggagg cgcatggggc gggatgtgaa 180

ctcggcagcg tgtcgtagcc gctccaaggc ggctcggggc tgtccctcga ggtcccggcg 240

tggatgtggg ctgccacggc gtggtggtgg ctcatggcgg tggtctgggt tgtgtcacgg 300

cggcggcagg acttcttcgg tgtccgccgg tcggtgagcg ccttgttgac ctttgattcc 360

tccccttgt cgtttgggca ctatcttcat tgaagggttg gccattctcc agttgtggtt 420

cctcgtccgt 430

<210> 4869
<211> 524
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b01b1

<400> 4869

ttgtttcgaa ccaaaaccag accaaatctt cggcgagccc atcggcacat tctgagagcg 60

gagaggaagc aggaggcggc ggatcatgga gaggagacta gaagatgggt ggcggcatgg 120

aggtgaacaa gaaccgctgg atcgaggagt ggaacgccgg ccgggagaac ctcgagctca 180

acttgcgttt tacccgccgc agcctcgccg tcatcggcct cttcggcctc gacgtaccca 240

tcctcgtcta caagggcatc gttcgcgaat tccatatgca ggacgaggac gccggtcggc 300

cgtacaggaa gttcctgtga gcgttgcctc cggtggatgt cgagactccg agccgtctgc 360

agggtttcgg tcagggagaa ggaatctcca ttcggttagt ttcccgtact gttgtagtca 420

gaccggagta ttttggtctc acatgttgtg cgatatgtgt taaataagat gtaatgaaat 480

gctgttcttg cattgctgaa cctgagaagt ctgattggtt attt 524

<210> 4870
<211> 518
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b03b1

<400> 4870

ttattgtttc atgtctgatc tcgacgttac tctgccatct gccttcgatc cttttcctga 60

ggcaaatgct gaggatgctg gtgcaggctc cggcgcaaaa gattatgtgc atgtgcgcat 120

ccagcagcgc aacggcagga agagtctgac cactgtccag ggcctgaaga aggagttcag 180

ctacaacaag atcctcaagg atctcaagaa ggaattctgc tgcaatggca cagtagtcca 240

ggatccggag ctaggccagg tcattcagct tcagggtgat cagcgtaaga atgttgctac 300

tttcctagtc caggctggga ttgcgaagaa ggagctcatc aagatccacg gcttctaagc 360

cgaagccgcc tccgataaat gctcgaaccg ccagccggct ctttttatat tgaaggcata 420

aggcatatat atattgccgc ccgcttgtcg aactgtgtct tgcttgatgc aagctgtgtt 480

ggcgcctgat tattatgctg ctgctgtacc ggcatatc 518

<210> 4871
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b04b1

<400> 4871

gctacatcca cccacggcgg tgttggacgg cggcgacggc ttttctttgc tgcaactgtc 60

tcggattttt gctactaccg gagacgccat ttgctactac cagagtcttg ttggaagcat 120

cagaagtttt cgctaccacc ccaagttttt tttgactttt gctgaaccag cctaaaaatt 180

gctaccaccg tcttttgatt ttgctggaac cggcattttt tttgcttcac cggcggcggt 240

gaaggtgggt cgtgttttgc ttcgccggcg gcaagcaggg gtagcggccg gcgacgtgag 300

gctccgcgag ccgcgggggg cctcgccgga gatgcgccgc aggggcgttg ctggagctgg 360

gcctcgcgcg aagatgcgcc gcgggggcct tgctggagct tggaccctcg ccg 413

<210> 4872
<211> 346
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b08b1

<400> 4872

gagcaagcgc cgcaggggac gctctcatgt cgaagcgcgg gaggggagga tcggccggga 60

acaagttccg gatgtccctg ggtctgccgg tggcagcgac ggtgaactgc gccgacaaca 120

cgggcgccaa gaacctgtac attatttccg tgaagggcat caagggaagg cttaaccgtc 180

tgccgttggt ctgcgtcggc gacatggtca tggccaccgt taagaagggg aagcccgacc 240

tcaggaagaa ggtcatgccg gcggtcattg tgcgccagcg caagccatgg cgccctaagg 300

acggtgtctt catgtccttc gaaaataatg ctggggtgat tgtgaa 346

<210> 4873
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b09b1

<400> 4873

ttgctaatgc ttctcttgaa gacaagttgt catccacaga ggcgcagctt aagcaacttc 60

atgccgaaaa ggcagaagca tctgctgaga gtgagaagct gatctctgga ttgaagcaag 120

atattgccaa tcttaagaca gagctcgagt tactgtcctc acagaaagct gcagttgata 180

ataaggtgtc tggtttgctg agtgatctcg cgacttgtga tgaaaagatg aaggagatgg 240

atagccactt gcatcagctg cacctggagc atgtgcaagt gattgcagag gcagatgccg 300

cacggaagtc cgtggcagac ctgcgtgcac gggtctgtga gctcgaggaa gaggttgaga 360

agcagaagct catggccttt gacagtgcaa aggggaagcg ggaggcaatc aagcagctgt 420

gcttcttgct cgagcactac cgcgacgggt atcagcacc 459

<210> 4874
<211> 91
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b11b1

<400> 4874

ttttccacgc gtccgcccac gcgtccgccc acgcgttcgc ccacgcgtcc gcccacgcgt 60

ccgcccacgc gttcgactag ttctagatcg c 91

<210> 4875
<211> 348
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b12b1

<400> 4875

ttttatttcc actcctctct cccctacccc tcgccccatc gccccgccgg cgccgcacgc 60

gccaccggcg acggcgaccc cgatgggcgc cttcgcctcc gttctatttc tttccgtggc 120

cgacttcttc cctggcgcgg tcaccgcttt cgcgggcgcc gccggctgct tcgcgcttgg 180

ctactttctt gcccttgtcc ggcttcccat tcacgccggc ggcgtccccg acttcggtga 240

cgacgatttc gaggacgact tggacgaaga tgatgactaa aatttcggcc gcgccggccc 300

ggcgaatcga gcctcccggc ggaagcggac cgggctcaag ctgctgtt 348

<210> 4876
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041c10b1

<400> 4876

cccaaggcgc atatagttct acagaagagg tgaaggagga agttaagtgc atcaaggcca 60

ttatagagag gctgttacag agggaaggcc atcttgtggt catagatgaa ggaacagcgg 120

cagcagaagg tgctgcggca agggcatcgg agcacagaat cctggctgtt aaccccgaact 180

acgtcattga ttgattaacc agctgaggtc acacagctaa ctagatccat catatgtggt 240

tgaccaatag agcagacatt caaacggaag acatcctgtt gtgatatgct ctagaaatga 300

tatgttgtac ctgccatccc cttcccaagg aagcacaaga tctctggaat tgtatcttct 360

tccaaggttg aagtgtggta attaatttgc caccagtatt ggttgc 406

<210> 4877
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041c12b1

<400> 4877

ttggcggcgt cctcctcctc accggcggcg gcggcggttg ggcgagcggt cgaggaggtg 60

cgttcggcgc tgaacgagca cgccgacgtg gtggcggagc tcttcggccg cgtctccacc 120

gagctccgcg gcgggttcgg ccccgccgtc gacactttcg tcggcttctt ccacgccgtc 180

gactggaagg aaccttggtt gatcggcatg ataagtttcc atgccattct gctactggta 240

accatcatct ccaggaggaa catcaatttc caacttatct tgtcagcctt aacatttttct 300

ggtgtattcc ttgccgagaa actaaacacg ttcctaggac aaaactggaa gagcttctca 360

agccagaatt actttgatcc ccaagccttt tatctcggtc atgtggtctg gcccctgctt 420

ctgatacgat acttatctgg tgacaccctg tgacctctgc atgct 465

<210> 4878

<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d01b1

<400> 4878

ttcttttcgc gtccgtccgc atccacccga acgaaaccct agtctcccat cacttggatc 60

cggtctttga cattcttcga cgcaggacgc cgtaagaaat ttcgctagag atcttgcagc 120

tgccatggcg gacaatgaac ctattgaccc aaagaattac cttgaggaac gctgcaagcc 180

gcaatgtgta aaatcattgt atgactatga gagatgtgtg aagagagtca agaatgatga 240

aactgggcag aagcactgca ccgggcaatt cttcgactac tggtcatgcg ttgacaaatg 300

tgtagcacca aagctctttg agaagctcaa atgatggatg gggtggcgct gattgccaca 360

gaccccaata aatcgatcca ctgtcctgat ttctgattgt gctgaacctg taacaaggag 420

ctttcttcta tctgttgcta aaacttgtca aaacaagcaa acacaattat tttggcagtg 480

ggaaacaata ctttatt 497

<210> 4879
<211> 528
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d02b1

<400> 4879

tttgttacca ggcggcacca ccaccaccca cccatggcct ccctggcggc gagatccggc 60

ctccgctccc tggcggtgcg cgccagggcc cccgccccgg ccacgggcgg acgcccgcatg 120

tcctcctccg cccacgacga cgcctatgag acggccaagt gggagaagat caccatcatt 180

ggggccgtca cctgcaccct cctggcggcg tggaacctct ccaagggcca ccccccacttc 240

gacgagccgc cggcctaccc ctacctgcac atccgcaaca aggagttccc ctggggaccc 300

aatggctctg tttgaggtca agcacgacca ttgagtactg aatagtgcat cataagaagt 360

cggtgaatgc ttcagtaaaa ttctctgtgt gtccagtggt ttttttattt tcattgcgat 420

ctatttgtgg caagaaatta gaaagacaca ctcttgtgct gacaatcccg aattgactga 480

attgtgtcta ccctttttttt cacatcaatg atctatgtga gacgaaaa 528

<210> 4880
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d04b1

<400> 4880

tttcttaaac atagtaaaat gtataaaatt acgcagcttt ccccccacca ctggtggggg 60

gtttgggtgc tggccccaaa cgaacacact cctgcgtgcg acgctagata ccttatgtga 120

cggaaccgaa aaaggggtca ctgcatgtct gaagacaaca aactgactgg gaaaactctg 180

ccttcgctca gaagacaacc caacctgatc agctctcgtt catcagatgg catatgagcg 240

atgaggtctt gcccgatcgc tcaagaggac acttgatcac actagacctg ggctg 295

<210> 4881
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d08b1

<400> 4881

gcccacgcgt ccgcccacgc gtccgctcac acacacacat catctccccc acctctctcc 60

caaagccaag agctcagaga agcaccggcc atggagggca aggaggagga cgtgcgcctg 120

ggcgcgaacc gctactcgga gcaccagccc atcggcacgg cggcgcaggg cggcggcgcg 180

gacgagaagg actacaagga gccgcccccg gccccttct tcgaggccgg ggagctcacc 240

tcctggtcct tctaccgggc cggcatcgcc gagttcctgg ccactttcct cttcctctac 300

atctcggtgc tcaccgtgat gggcgtggtg ggcaacccgt cggggtccaa gtgcggcacg 360

gtcggcatcc aaggcatcgc ctggagcttc ggcggcatga tcttcgtgct cgtcactgca 420

ccgtcggatc ttcggcggcc acataacccc tgggacacct tcgggctgtt ttggcaag 478

<210> 4882
<211> 355
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d10b1

<400> 4882

tttgatcagt gtcttttgca aaaaaattac gctagatatg gtgtcttctg caacaaataa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaat aataaaaaaa 120

tataaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aatattggcc gtccctttta 180

aagtaccaaa ctatactttc ccgtgcatcc aacattataa ttttttttata tggccaccta 240

attaaaattc tatgcccgca atttaacaac ctctcaacgg gaaaaaccct cgattcccca 300

aacttaataa tattgtaaaa aatctctctt ttttccaatt tgttttaatt aaaaa 355

<210> 4883
<211> 70
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e01b1

<400> 4883

tttgtttggt ggactccgcc taggttgccg actgctgcga ttttgcagtg cactcggctt 60

taagggtaaa 70

<210> 4884
<211> 531
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e03b1

<400> 4884

ttgcccgtct cctctctcct ttccccaacc caaaccagga gcgccctccc tcccccagcc 60

gtccgccccc tccccaccca ggaaaccagc catgaagggg gccaaattca agggcgccgt 120

caaggccgac accaagttgg cggtgaagag caaggggcg gagaagccgg ccgccaaggg 180

gaagaagggc aaggccggca aggaccccaa caagcccaag agggcgccct ccgccttctt 240

cgtcttcatg ggcgagttcc gcgaggagtt caagcagaag aaccccaaga acaagtccgt 300

cgccgccgtc ggtaaagcgg ccggtgagag gtggaagagc ttgagcgaat cggagaaggc 360

cccctacgtg gccaaggcca acaagctcaa gggcgagtac aacaaggcca ttgccgccta 420

caacaagggc gagagtgctg ctgctgctgc cccaaagaag gcggcggcca aagaggtaga 480

ggaggacgat gaggaggaat ccgacaagtc caagtcggag aacaatgatg a 531

<210> 4885
<211> 550
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316041e04b1

<400> 4885

tttttgtcgc gtgggttgga aaccatgctg cagggctggt aaatgcctaa atcatgcgtc 60

tcagtgtggt gctggtgttg gcatatttct tttggtgagg aaaacaacaa tcctgttgca 120

acgatcggct cgtcttacat tttggccatc tctgtacctt atgctttcgg tgaggaggat 180

catgaaatgc acagaggaaa gcccttgtat cttagccaag aaagatacgc agccctcaca 240

tatctggtgg catctcatag ccttgaccgg acttctgaag ttctgcggca aacaaccatc 300

agcttttata catctgatta agtgcatcgt tttgaggaac aatgcccaaa ggatcatgtg 360

atgtgcatat tttctgggaa ctgtggtcta gcttcatatt catgctttcc agtgatggtg 420

aattgcatcc attcccaagg tggcacggat tctggcagac tatcgagccg tgcgtcggtg 480

tttcagacct tgttcgagca caatgtacag cggtgcctat ggcgcccctt ttntctttcc 540

tttttcgtct 550

<210> 4886
<211> 232
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e05b1

<400> 4886

tgttgtacgc gtgggtttgt ttttgcgggg ggtggaaata gtgttatgtt gaatgtattt 60

aagcaaagac atgctgtggc tttgtctagc attgatgtgt gcatatactg ttgttgtgct 120

gggacaatgg gcttcaccac tgcggtgacc tcgtgtatac cactagtaag agacatgttg 180

tgttgtgaga acaaataaac ctaagtgtta aaaataaaaa taacaaatgt aa 232

<210> 4887
<211> 444

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e07b1

<400> 4887

tgtttggagg acttcgccaa ggttgccgac ttcttcgatt cggcagtgaa cttggctttg 60

aaggttaaag ctgcagcagc aggtaccaaa ctgaaggact tcgttgccac tttgcaatcc 120

gacagcaaca tccaagctga aattgcaaag cttcgccacg atgtggagga atatgcgaaa 180

caattcccaa caattggatt cgagaaagag accatgaagt acaagaacta agaactgcta 240

tgtttcaaca gcaaggaagc aaccaggaag cacaactgag tacaagtcca tgtaaacaat 300

agatgcatga tgaagcgcca ccatatgtaa aaggaatcca agcattttac agaatatggg 360

aactttgtca atagtttctt attgcaggca catactgtaa gatgctttcg tgatatgcta 420

tatgaaccgc cattcttctt ggat 444

<210> 4888
<211> 307
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e10b1

<400> 4888

taaactgcct gttgtgtgtc aaaaaaaaaa aataaatata aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaatatac atatatatat aattatcacc taccctatac tacattagct 120

aaatttttat tcttattatt acataattaa aatttcatat ctttttaacc cggggcggcc 180

ccttttgggg gtcctagtct tctctccgtt ggtcgtgttt ttttttcttt ttttttgggg 240

ccccctattt cttctctcgg gggccgtttt tctcctctct tgttgggggа accccc gggg 300

gtccccc 307

<210> 4889
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e11b1

<400> 4889

tttttttgcg agggcgaggc gagccactgg ctgatccgtg tctactctac gtccctgccg 60

cccgtacgga catacatatt gagtaaacct ggggagtttc ttccctgctc tcgtgttacc 120

gatgatttgt cccatgtata catatcgagt agtaggcgca cggatttagt acgatccatg 180

tatagagggt ggctcagaac cgtgagcggt gtgtctcacc atcactcgat tgtacagagt 240

gttctcttcc attttgctat gtgaatatgt gatcagatat ttgtaggaca gcatatgatt 300

attagtacaa ctttac 316

<210> 4890
<211> 461
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041f09b1

<400> 4890

ttcgaaggaa gcgtggcata tatttgctgg gaaagccctt attttggatc ctacatgctc 60

caaacgtagc tgggaaaaga aatcaaaggt acatatgttc tttcaggaaa atgggacgtt 120

atggacaagg tttggcgcac tctcacttcc aggtcgttgg ctgctgccgc aactgttgcc 180

gctgagcacg caaatgttcg acttttgtcc ttctagggcc atgggcactg agctcgggag 240

ggcgttctct ctgtcaaatt cttgtcacgc tatatgaaac cttacatcta agctgctaaa 300

gtgaatgacg ggtattgtct gtattgtgta ttgtgtattg tgtaggtagc aagcagcttc 360

cttttgttcc aggtcatgta atatcatcag caaaaataga acttaagaca gcaaggtctt 420

acatttttt ttgttaaaga agaaggtggg gtagcaagac t 461

<210> 4891
<211> 75
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041g02b1

<400> 4891

tttaataata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taataaaaag aaaaaacaaa 60

actaaaaata ggggc 75

<210> 4892
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041g05b1

<400> 4892

tttgttaccc gtgcggtctc cgaaaccgca ccccaattcg tagacggaga acatggatcg 60

ccgccggcgg cgacccttct ggtcatggcc ggcggaggag catacgctgg agagactacg 120

acctactgcg ggagatcctg gtgcgcctac cctcgcagac cgacctacct gctgcgcgcc 180

tctccttggg tcaagagctg gagacacatg gccatctgcc ccaagctact gcggcgctgg 240

cgcgtccacc accggaagcc tacactgctc ggggactaca cgagtgagaa cgggggactt 300

tcgcgcagat ccaccctgga cctgccgtac cgaatccgtc ccggccacat tttcctacaa 360

ctacaagtac acggtcgtga tccatggagg ttggtcgact gacgccacgg acgcgtgctc 420

cttctaacaa ggagagg 437

<210> 4893
<211> 335
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041g12b1

<400> 4893

tttttgccca cgcgtccgtt aagtttgaat gtcttgggac aaaatctggt agtcttttga 60

tccaaataag gtctggatct ggatatcttg cttatgattt gtcagattaa gcttttctgg 120

tggtgttgaa tttgcatgct agttgcgtta ataaaaaaaa gaaaaaaatt tattcaaata 180

ctaaaataaa taaaaaaaaa aataaaacaa gattatagat ctaatttgaa caaaagaaaa 240

actagttctt attggggcgg ccctttttagg ggtcccaagt ttacctccgc gggcatgcaa 300

gctcttggct tttttttagg gtcacctaat ttaaa 335

<210> 4894
<211> 206
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041h02b1

<400> 4894

gacgtcatac atctggtata gtgatagcta aattcaagtc catctggctc gtctggtggt 60

acgaacgtca gtgactaggg gaaacacctg gtggtaccca acttaatggt gtgggagcac 120

atgcaccttt aggcaggtgg ggcaatagcg aagagggcag taccgatcgc cctggccaac 180

aggtgcgcag actgaatgga cactgg 206

<210> 4895
<211> 325
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041h04b1

<400> 4895

ggtggaacct gataagtctg tgatcgtgca acctggattc aaatgagctg tcggggctat 60

agaacgtctg gagtggaaaa accgtggaaa gaccaaactg aagcccgttg cacgcacatc 120

tgggtgaaca acaggatggc gtgatggcag aactggccgc gaccaaagag gaactgcaac 180

tgctggtgga acagattggc gaggggacg agcacatgag ggctacacta ggcactggcc 240

gtggggtgac aacgcgcaga ctggcaaaat cactgggcag cgcaactaaa gcccgcttgc 300

tgcacattct tcctttgcct gctgg 325

<210> 4896
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041h07b1

<400> 4896

tggtcgccac tgggggctct caggcggact gtaaagcgat tgacgtaggt gggggatgt 60

gggctgatac ccaaggagcg tcatgattcc ttcaattgcg aagaagaggt gacaagacag 120

acggagaaag taaatggagt gctccaggac tatagcaaca tgcaccagaa gctaaaccaa 180

gacatggatg caactgttga gtctgtaagg cctgatcgca aacaatagta aaggtgacac 240

catatggggg atatatgaga gaggacaatg caggctctag gcttaggcat gccactggtt 300

gtattgacaa atggtataaa gtgtgagaac gatatcttcg cgtatcttca tttgaccgct 360

tggaggtcga aggacttatg gatgtgatga tg 392

<210> 4897
<211> 248
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041h10b1

<400> 4897

tccttgttat agatcgcgag cggggccctg tgttgttttt tttttatcac aaatgaatta 60

aggcaagagg cacatctgta gcaaactagc ttgggcattt aatagcagcc atgacaaaat 120

atgaagtagt tcttcgaaaa cagttgtact aattctggct ttaagaacac tggaacatag 180

agcagatcca acttggcaca aacaaagatt ctaacctgac ggagacaaaa gaagaactgg 240

ctcttcag 248

<210> 4898
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a02b1

<400> 4898

ttgtttacgc gtccggtaaa accaaggctc cggcgaacaa ttaccacagc attagcaaat 60

ccaagtccaa caataaaatg aaaacctcgg agcctcgggc gaagcagccc aagccccagc 120

tgaaggagga agatcacgag gacgaagccc ctgatgcggg cgaggatggt ggaggcgccg 180

ccggtggtgg tggtggcggc ggggaagagc acggcgatac gctgtgcggc gcatgtgggg 240

acaactacgg gcaggacgag ttctggatcg gctgcgacat gtgcgagaag tggttccacg 300

gcaagtgtgt caagatcacg ccggccaagg cggagcacat caagcagtac aagtgcccgt 360

cgtgcatggg 370

<210> 4899
<211> 179
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a03b1

<400> 4899

tgaatgcaca caggtgctcg ataaacaagc ggaggttttt aaaatctttt tcctcttact 60

accggagtgg caaggtctgg gtctgtttga atcccggtta aggatggact gtcgagttct 120

tcccaagaca aacaaacaca aaaaataaag acaaaaaagc aaactaatta aacctccgg 179

<210> 4900
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a04b1

<400> 4900

ttggtgcacc ggaaccatcg gcttctgtgc ctgcgtctgg ttcacgagga tgatctactc 60

gtccgtgaag atcgattagt cgctggaagc acaggaggca gagacagaga cagaagcata 120

gcatatgttt tcagctttcg cggtcagagg tgataattgt atgattaagg tgaaggtggg 180

gatcatcccc gtgtttgtta ctcttttgag ggaaaagtta cattttggga ttagattatg 240

aactgttgat ttatgattat tgctgcggtc acaagtgatg atacttgcta gtgataaatg 300

ttggagttac aagggtagaa ttcactacag tgggatagac ttgtctgttt t 351

<210> 4901
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a05b1

<400> 4901

tggctggtcc cacccgtctt gtagcagcac tggcactgca gaaagggcgg gggatacgtt 60

actcttcacg tgcgagtcca ggcacgaggg ccatcccgac aagctgtgcg accagatctc 120

tgacgccgtc ttggacgcct gcctggccca agatcccgac agcaaggttg tctgcgagac 180

ctgcaccaag accaagattg ttatggtctt tggtgagatc actaccaaag gcaccgtcga 240

ctacgagaag atcgtgcgag acacctgccg taacataggc ttcatctttg acgacgtccg 300

tctccatgct gaccatt 317

<210> 4902
<211> 347
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a06b1

<400> 4902

tgttgctcac gcgttcgccc acgcgtccgc ccacgcgtcc gcccacgcgt tcgcccacgc 60

ttccgcccac gcgttcgagg cctcgtcgac ccggggacgg tggggcacac ttccctcagc 120

ctcggcctca acgtctggcg gccgacggcg cggcggggtg cccctccggt gaccaagatc 180

ctcgtggagg aggacttcat gtcctccaag aagaatcacg aggtcgaggc gctggaggcc 240

gagctccggc gcgtgggcga ggagaacagg aggctcagcg acatgctccg cgcgctggtg 300

gccaagtact ccgaccttca gggcagggtc agcggcatga tggcggc 347

<210> 4903
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a09b1

<400> 4903

tcgggccaaa gccgcagaca gcacgcacgc ggagcccacc gtcgccgctc caaatctcgc 60

ccgctcgccc gccgctctcc gccgccatgg acgccgcctc ctcgctcatg ggcgggccct 120

cctccgccga cgcccccacc gacggcgagc accggatggg caccaccatc gtcggggtat 180

gctacgccgg cggggtcgtc ctcgccgccg actccaggac cagcaccgga atgtatgtgg 240

caaaccgtgc ttcggacaag attagtcagc tcactgataa tgtctatgtc tgccgttctg 300

gatctgccgc tgatacacaa gttatttcag attatgtgcg ctattttctc caccagcaca 360

caattcagct tgggcaacca gctaccgtga aagtcgcatc caacttggtt aggttgctgc 420

ctatcagaac agagcatgtt g 441

<210> 4904
<211> 473
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316043a10b1

<400> 4904

ttggaaaaac cctagccctc gcagccgcag cggcgcgcac acctctccct cctccctgaa 60

gacagcgccg ccgtcggcga gagcacagga tggcgaccgt gcccgctccc gcagccgaga 120

ccgcggcctc cacggcgcgc acggtgaagg atgtcaaccc ccacgagttc gtcaaggcct 180

actccgcgca cctcaagcgc tccggcaaga tggagcttcc ggagtgggtt gacattgtca 240

agactgcaag gttcaaggag cttccacctt ctgatgctga ctggtactac atcaggctg 300

cctcgatggc aaggaagatc tacctgaggc agggaattgg gatcggcggc ttccacaaga 360

tctacggtgg ccgtcagagg aatggttcac gcccaccgca cttctgcaga gcagtggtgc 420

tgtgtcccgc aacatcctnc aggagttgca gaagatgggc atcattgatg tgg 473

<210> 4905
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a11b1

<400> 4905

tttttggggc actgccgatg ctcgaggatc tgggcctagt ctactctgtg tcaatggcga 60

atgccaatgg attctgcctg ggttttcagc acctcccaag actgagaaat gcacgagtcc 120

gtctctacaa agagggcgca acatcttctg ctatcacttc tgcagaagtt gctataaaga 180

atgaagcaga tgcccatccc aaccatccca cagtaactct gatagaacat gtcaagagag 240

tggattattg ctctgaggaa tgtcctaaga gaaccgtaca gagctactct gaagacccag 300

aactagttga caatacaact aagcaaaagg aaacttaaat ttgtggactg gtgacaagtg 360

agagatggcg tgctgctgct tgtgtggctg gaacgacgtg gtactgtcat agaagctcga 420

acg 423

<210> 4906
<211> 310
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a12b1

<400> 4906

tcgtccacgc gtccgcccac gcgtccgccc acgcgtccgc ccacgcgtcc gcccacgcgt 60

ccgcccacgc gttcgcggac gcgtgggcgc ggtgacgggg gcggacgcgt gggcggtcgc 120

ttgtgagaag tcgattgaac attatgattt agagaaagaa gaaatcgttg tttgcctgga 180

tgaatcccac ataccagaga caattcagcg atttttgagt gaatagaatg ctgaaataaa 240

cttgtactag catcgaaaat ttcggttcat tatttgcagg aagttgtgct gatctattat 300

ttacagaaac 310

<210> 4907
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043b02b1

<400> 4907

tctttcacgc gtacgcccac gcgtccggct ggacttgcaa agaaagagag catcaagatt 60

cacggatttt aggcaacaca caaatgctcg tgtgctgtca ccgaagcctg gaagttgtcg 120

tatacttggt attgtcacat ctaagacatt tgaattgcta gtactcgtgt gaggcatctg 180

tgtttgatgc acttttacat ccaagacatt tgaattt 217

<210> 4908
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043b05b1

<400> 4908

tgtaaatgta gaaggttttt ttgctgtata taaactggag atatgacact gttcttcgtc 60

aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaatg gacgaaaata 120

aaaaaaaaaa aaaaaagaaa aaaaaaaaaa aaataaaaaa aaaaataaaa aaaaaaaacg 180

ggccggcctt tttaggggac ccaatttcaa atgccaagac gtcggaaacc aaaaatttaa 240

taaagttaaa ccaaaattaa aa 262

<210> 4909

<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043b08b1

<400> 4909

gcagaatgtg ttccttctat caaggaagtc attgctaatg gcatcagcgt caatgtcact 60

cttatcttct ctgttgcaag atacgaggct gtgattgatg cttacctcga cgggcttgag 120

gcttctggtt tgagcgactt atcccgagta accagtgtag catccttctt tgtcagccga 180

gttgacagtc tgatcgacaa aatgcttgag aagattggaa caccggaagc tcttgccctg 240

aggggaaagg ctgccgtagc acaagcaaag atagcaaatc agctttacct gaagaaattc 300

tctggaccga ggtgggaggc tttggtgaag aagggagcca agaagcagag gttgttgtgg 360

gc 362

<210> 4910
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043b09b1

<400> 4910

tttttgcccg aacccccagc tcccctcccc ggcgccgtcg tagcagcaag atggtgaagg 60

gacgcaccgg ccagcgcgtg aggctctacg tccgcggcac catcctcgga tacaagaggt 120

ccaagtcgaa ccagtacgag acggcgtcgc tggtgcagat cgaggggggtg aacaccaggg 180

aggacgtggc ctggtacggc ggcaagagga tggcctacgt ctacaaggcc aagaccaaga 240

gcaacggcac ccactaccgc tgcatctggg gcaaggtctt ccgcccccac ggcaacaccg 300

gcgttgttcg tgccaagttc accttcaacc tgcccgtcga ggccatgggg aaaaaggtca 360

gggtcttcat gtacccgagc agcatctaaa aggttaattt gaagggtgga ggaattcgct 420

cgtcccttaa gtttcatttc agagtcttgt tagatggat 459

<210> 4911
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043c02b1

<400> 4911

ttgtacaggc tatattactg gtgattatgt ggggcttttg gcttcatgtt atgcccattc 60

tcgtggagcc ctgaggtata gatggatgaa cggtcaaacc actgcttcgg gtacgatcac 120

taagattata ccctatgata ggctagtggt agctccagtg tctgttacaa ctaagacgac 180

ctcccaattg cttggccaag cacctcaaat cacattaagt gaaaatgcgg agctctctaa 240

tcaggcgacc acctatgatg atgttcagtc atcgggtgct agttctttta tacctatgta 300

taatcgaact ttttgtagat tgaatcggtt gttctatacg aacaatcctg gagatgcttt 360

ggtcttacgt gctcctgata ttgcaaaatt tcaactggaa atag 404

<210> 4912
<211> 243
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043c06b1

<400> 4912

ttgttgacgc gtacggccac gcctgcgcgc agcgcgtacg atcacgcatt cggccacgcg 60

tacgcccacg cgttcggtga atgtaaaggt tactagtaca gcctagtgaa aaaataaaaa 120

aaaaaaaaaa ataaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggggcgg 240

ttt 243

<210> 4913
<211> 191
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043c10b1

<400> 4913

tcggtcccga tctatcacca taaggatgcg gtgatagaga ttgatggtaa cattttgtct 60

ttcgactcca ccaatggtta ggtggtattt cgtacaattc accgacatat ttcgcgctga 120

ttatgaatga tgaatgctat gttgtgggca caaaaagata aactgaatgc ccaactacgg 180

ggggtgcgtt a 191

<210> 4914
<211> 327
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043c12b1

<400> 4914

tcgattcgaa aaggccaaga tcgtgcagga gaattggtag caaataaatg aaacaaagat 60

aagattcaac caaccatgtg ctcccaggag aatgctcttc tctcttatga tggatcctcc 120

atgcatttct ttgtacatag cagcattccc ttttcttgtt tgtaaaacta ctactgccag 180

tctgttggtg ttatttccat gccatttgta atttgttctt tgaaatggtt tgtgatttgt 240

tttgtgggga gacagaatta tcctcatttg tgtgggagcc attttctcat tggtcataaa 300

taaaatggat ggtttaccaa aatagaa 327

<210> 4915
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043d03b1

<400> 4915

ttgtttcacg cgtccgccca cgcgtccggc agagttggac tcatagatac cacatatctt 60

tgcctccgtt gatgcaatca tgttatttca ctccaagaca cacacttttt catgattcca 120

aaatttgcgt gcagttgttt gctcggaacc tatactgcta tgatccaaat tcaaactctg 180

aggaattgga gattgcctgt ccagaatctg agtttccttt cagcattcat acgtttgttg 240

aaagtataat tcctctgtgt caagataatt tcatcaagaa gatacagtga tgttggtctt 300

ctttattctt gaagatagat ttcagcttac agatttacat tatctttgat gtttttctc 360

ttcaaaaatg gacttgttaa ctgccttaat ttggcctact ttatcacttt gtgattagtt 420

ataagaacaa tcttgaaaat t 441

<210> 4916
<211> 391
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043d05b1

<400> 4916

ttgcgcacca ccaccgctcc ccatctcgat ctaaaaccga gggtttcgtc tagctccgtc 60

gccgcgagcc agagccagcc caccccagcc agccagccat gccgaagaac aagggtaagg 120

gaggcaagaa ccgcaagagg ggcaagaacg aggccgacga cgacaagcgc gagctggtgt 180

tcaaggagga cgggcaggag tacgcgcagg tgacgcggat gctcggcaac ggccgctgcg 240

aggccatatg cgtcgacggc accaagcgcc tctgccacat ccggggcaag atgcacaaga 300

aggtctggat cgccgccggg gacatcgtcc tcgtcggcct ccgcgactac caagacgaca 360

aggccgacgt catccttaag tacatgaacg a 391

<210> 4917
<211> 208
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043d06b1

<400> 4917

ttgtccacgc gtccgctccc gaaaacttta tggggcgatt ttaagccaca tggaccgctt 60

gctccagagt gctacaacta tgttgctgat aaaacttacg tgtcgcgcaa ttgtagaaac 120

cattgtcatc attacagata ggaataataa tgggacctaa gttaaccgtt attactgcac 180

aattaactgg atatttgata agctttcc 208

<210> 4918
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043d07b1

<400> 4918

tttggtataa tggggctgac catctcgtgc gtgtgcacga gctgggtggg cgtgacgatg 60

ctgacaggag gcgggcgggg agcatggcca tggccacgct gaccgtgctg acgctgatga 120

acttcaagat acaacgcaga gacatccggg accacatgac attggctagc aaaggccttc 180

atggcacaag cacgggtgaa caggcccgca gatggtcgga gtactgtcag acttgcaaac 240

atatatgcta ccagattgat cgccgtatat ttaggccggg gctgaagatc tctactatgc 300

cgctcctcag ggtggaacgg gtcacggacc acttccggat gttcgtggac cgggagctca 360

ctctggcgca ctgctacaca ctg 383

<210> 4919
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043e01b1

<400> 4919

ttgttctggc cagccttggg tgagagggtg ggatgacaag gacaagaggg gtctgcatgg 60

acccaagtat ggaaaccagt gataaggtgc ttgaaaccat tatcgcagtc ttaaaactca 120

gcttgttatc ctcggtgtgt atgatgcttg tgtaaataaa gcaagtcatg gttagtgatg 180

cgctatgatt tgtattgtca tttgatttgt gctagtaata aggtttcact tgttcccgtt 240

gagggaaacg tgtctgactg tagtggtaat gtgcagccaa atgtatctcc ttgttccaga 300

tcggagttaa ctatgtatgc acaaatcact ggcgcatttt cactaaattc agtaaaaaaa 360

taaaaaaact ggtaaattct gaaaaaaaaa aaaaaaaaac gctcttctca attttctccc 420

cctttat 427

<210> 4920
<211> 122
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043e04b1

<400> 4920

ttttttttt ttggtttttt ttgaggggga aggaggtgat aactacttgc tttcaccacg 60

tttatttgta agctggcggc catgatgttt tttaatatga tgattgtcga ctatttttt 120

at 122

<210> 4921
<211> 384
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043e07b1

<400> 4921

tcggtggaat gaggcctatg agtttacttg gctggaatgc cacggtgatg catgtttggc 60

aaattgctct tgtcctgacc acatggcacc atggagcatg gctgacaaat tactgtaaac 120

cccctgctga ttaagcggcg gacatgattt taatgctaaa atattaagtg ctgcatccaa 180

tagccgcaat tgtattacag tgtactgttt ggtaaatctc atgcgccagt tttttgtcca 240

agagttcaca tgcatgctga acaatagcat ttgtggaagg gtagaatgca gtatggttag 300

cattgagatg gtgtgagcac tgagcacaaa tgttgatgta gtcttcctca tgcggatttg 360

ctgcctgaat ccaggtgaac tctt 384

<210> 4922
<211> 429
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316043e12b1

<400> 4922

ttgcacccat ggggctacat gcagtcgtcg tcggacgagg cacagctgct ggggatgctg 60

atcaagatgg cgggcgccaa gaagacgatc gaggtgggcg tgttcacggg ctactcgctg 120

ctggccaccg cgctggcgct cccggaggac ggcaaggtgg tggccatcga caccgaccgc 180

gagtgctacg aggtgggccg ccccttcatc gagaaggccg gcatggcgca caaggtggac 240

ttccgcgagg gcaccggcct ggcgcgcctg gacgagctgc tcgtcgagga cgagggcgcg 300

gccagctacg acntcgcgtt cgtggacgcg gacaagccca actacgtgcg ctaccacgag 360

cagctgctga agctggtccg cgtcggcggc accatcatct acgacaacac gctgtggggc 420

ggcacggtg 429

<210> 4923
<211> 495
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043f04b1

<400> 4923

ttgttgaatt ggcacagcag aggttgagtc tgctttggtt tcgcatccac agtgtgcaga 60

ggccgctgtt gttggtgttg agcatgaggt caaaggtcag ggaatatatg cttttgtaac 120

tttggtggat ggcgttcctt acagtgaaga actacgaaag agcctcatat caaaagtccg 180

cactcagatc ggggcatttg cagctccaga caggatccac tgggcgccgg ggctccccaa 240

gacccgcagc ggcaagatca tgcgcaggat cctgcgcaag atcgctgcaa agcagctgga 300

tgagctcggc gacataagca ctctcgctga ccccggcgtc gtcgaccagc tgattgcgct 360

caaagattgc taggatgtaa agaagttatg cgactgtttt ttcccctatg tggttatgtg 420

gttggtagaa gttggtttta gtgttcattg gtctcctttt aattggtgca attttctcct 480

gaggctagtg gactg 495

<210> 4924
<211> 501
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316043f05b1

<400> 4924

ttgatcgcga gcgggcagct caatgtgggt gtgggtggtt tctggtggcc ggcttggagc 60

tgcaactgga ggagcccatc tctgcggtca ccctccccaa cgcccacgcc actccgtcca 120

gtccgcccat ccacaaggag gaagaccgcc gcttgccagg tgagtccgca attttcttct 180

ccatccccgg ccgtatccgt atggctggct gctctcaagt ctcaacacac caacgacctc 240

gagcagcgac cgtctgcctg gtcccagcat caagttctcg atgactccgg ccatgccggg 300

ctcgccgtac atgcacttct tctccgctgc tgagaggaca ggcggaaggc tccgtcatgt 360

tcgttccctg ttacgacaac cccgtcatgt acgacatcga catggagtcc gtcgccggcg 420

tgcccctgcc cagctttccc aagcagagcg actccatctt cctgtccatg gccgactccg 480

tcgaggtgtn gaactacagg a 501

<210> 4925
<211> 379
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043f09b1

<400> 4925

tttgctccag ttgtgttgag tttcacagac atcatcatca acttagctgt ttgaaaaaaa 60

atccctcttt gcttgcccac ttgtttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa agggggggccc ttttaaaaga accaaattta actacccctt 240

cattccaact aaaaactttt ttattggggc acctaaaatt aaataaactg cccgtgtttt 300

aaaaacgttg aaactgaaaa aaccttggtt tacccaaatt aaattgcttt aaaaaaaatc 360

ccctttttcc aagctggct 379

<210> 4926
<211> 152
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043f11b1

<400> 4926

atcgcccacg cgtccgccca cgcgtccggg ggggaatatt aaaaaaaatg gggcataaac 60

aaaaaaaaaa cgcgtgtctg gaaaaatttt aggttctttc ttacggtacg cataaaaata 120

atcttatttg gcggggcggt cccgtttaat gg 152

<210> 4927
<211> 508
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043f12b1

<400> 4927

tttttgcgga cgcgtgggca agcagctggt gggggggcgac gtgttcgtgt tcccacaggg 60

gctcatccac ttccaggtga acaacggcaa ggtgcccgcc gtggccatcg cggcgctcag 120

cagccaggac gccggcgtga tcaccatcgc caacgccgtc ttcgggtcaa cgccgcccat 180

cagtgacctc atcctcgcca aggccttcat gaccgagaag gacaccgtcg actggatcca 240

ggccaagttc gcgccggcca tgagcggcaa cagcagcatg ggaggaggcg gctacgacat 300

gccgcccggc ggcggcgagg gcgaaggcgg caacagcacc ggcggcggtg gcgggtacta 360

ccctggcatg cgcaagcgga agccctaagc acggacagga cggccggcca tccacgcgct 420

tatactaata attaatgaat aatttaagta caagtaaaca aagaaaacat gcatcaaacc 480

agtacttagt acttactact ggcttaat 508

<210> 4928
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043g01b1

<400> 4928

tcgtttgatc aagccctccg gcaacaacgt cgacggctcc accggcgtca agggcaacaa 60

catgctcctc ggcagcgtcg tcagcaagga cttcccgctg gcctgctact ccgtggacaa 120

gatgccgctc ccctacgagc tgttcggccc gcagccgccc accccggcgc ccgccccggc 180

cccggccccc accaagtcca agcccaagaa gaagaagaag tccgccggga tcgccgaggc 240

gcccgaggcc gacgacgcca ccgccgacga cgacaccgag aagtccgccg ccgcgtccct 300

ctccggcgtc gccaggtggg ccgctgtact cggtgccgcc gtcctcggcg ccatgttctg 360

atctgatccg atccgatccg atccgagagg aacgacac 398

<210> 4929
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043g02b1

<400> 4929

ttctttaacc ttgcggttgt agggggcgac catgggaatc tatgaaagga catggaggag 60

cacgctgagt tcaagaagat gtttgacctt attgagcaga acaacctgaa tgggcatgtc 120

cgctggatct ctgctcagat gaaccgtgta cgtaatgcta agctctaccg ttacatctgt 180

gacacaaagg gtgcctttgt gcccactggt ttctatgagg ctgtccggct tactgtcatc 240

caagccatga cctgcagtct tactaccttt gcaactgcat acggtggtcc tgctgagatc 300

atcgtgaatg gagtgtgacg ctaccacatt gatccctacc agggtgacaa ggcctc 356

<210> 4930
<211> 309
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043g04b1

<400> 4930

ttgctcacgc gtccggcttg ccttcgtcaa ccatggtgag gtcaagcgaa cccttgccga 60

ttggataacg agggtggcac cagacgactt cgacaagtcc tgcacacgca tgtaggaggt 120

actggaattc agcattgaat tattcacctg ctgctaggat gtgctctagc agagagattg 180

tgtatttgtg ttgctatagt tgctccacac actggagttt gattgttcat gtttccatga 240

catttatcat ctaatgataa ctgaaagtta cgtggctgca aaaaaaaaaa aagaaatgaa 300

aagggcggc 309

<210> 4931
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043g06b1

<400> 4931

tctttcatct cagcggatgg tgatagacgc agaataaagc ttgggagtgt cccggaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aataaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaataa 180

aaaaaataaa aaaaaaaaag gggggggtccc ccccccccca ccccttttcaa a 231

<210> 4932
<211> 154
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h01b1

<400> 4932

tgctgagttt gttcagttga taagttgctg gggtggtttt ataaacattt tgggtaaacc 60

acccccaaaa aaaaagggaa cactgtctta taaggtcggg ccgttctttc gggtccccgc 120

taccttttctc ggcgtcggtg gggtcgcctc cttt 154

<210> 4933
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h02b1

<400> 4933

ttgtgcttgc tgagtggata aaaacaagct ggggggaatc ttcggacgtg agccaggccc 60

ttcgccagga tattagcaaa cactgccagt taacaagtgc tacagccccg gtcgacgatg 120

aactataaca gcacgtgtta gctccccgta tttactcgac aaagaaaagc agatgaatgc 180

ctgagaagcg tcaaagaaga agctccagta ggatatgagg ctgtgatgtc ttagcgtctg 240

catttttaca cactcgcatt gttgtcttaa agagggactt gcagattttc acatatgatt 300

actgatgtat tgagaacatt caaactttga ggaatttctg catgctgaat tacagttagc 360

agcatggtat gattcgctga actta 385

<210> 4934
<211> 483
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h07b1

<400> 4934

tttgggatcg ggtgctgccc tcctcttgcg gcgggccatc gtcgtgccgt ttactcagac 60

ccagacgcag agcgcacggg acaaagctgc catggcggaa gacgcggggc cgctggtggg 120

aggcatcagt gactcgccga tggggcaaga aaacgacctc gacgtcatcg cgctcgcccg 180

cttcgccgtc tccgagcaca acaacaaggc caatgccctg ctggagttcg agaatgtggt 240

gaaggtgaag aagcaaactg ttgctggcac gatgcactac attacaatcc gggtcactga 300

aggtggggcc aagaagctct atgaagctaa ggtgtgggag aaaccatggg agaactttaa 360

gaagctcgag gagttcaagc tggtggagga cgttccaagc gcataactca taaggcgcgt 420

cccagctttg caaggatctg cagctatggt gttgatgtag ctatctatcg gacatgggtt 480

agc 483

<210> 4935
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h09b1

<400> 4935

tttttgaatg ttatccggtt tgcctacgag agagagaata cattagagaa aagggcaaaa 60

aaaaaacaaa aaaaaaaagt aaaaagaaag gactt 95

<210> 4936
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h11b1

<400> 4936

tttgttatta tcactggctg taggtatcac tattgctgtt ggtgtagtcg gttacataca 60

ggagaacctt ggctggggaa ttgggtttgg catgctctgc gccatcatgc tcggtgcctt 120

agttgtcttc ttccttggca cccctacata ccgcctctat gcacccactc ccggtgctga 180

gaaccccttt gccctccttg ctcgtagcct tgccgcgcta gcccaacatg acaatgccac 240

ttcgagctca ttgcttggtt acaaaaaaga ataccaggta gaacaaaaag aggatgcggt 300

aaaaaaggag gaggcgcgtg gcgtggtacg gttgctgtca atctgggcgg cgtgcctggc 360

atatggtgtg gtgtttgcgc agtttatgac actcttttac 400

<210> 4937
<211> 57
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h12b1

<400> 4937

ttcttaaaaa aaaaaaaaaa aaaaaaaaaa agaagaaaaa aaaaaaaaaa ccctaga 57

<210> 4938

<211> 128
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a05b1

<400> 4938

tttctttgca ttgtattgtc ttgtgtatcc cttatttatt tccttgggca tgatttgcta 60

catgcttttg cgagcgtaat taggaccgat tgtacctgtc tctctttgcc tgaaatgact 120

tgttgcag 128

<210> 4939
<211> 494
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a06b1

<400> 4939

tttcattaac gcagcacact cgcataccag gaaaccgaaa cgcatcaagg ctaggcgccg 60

ctgaccatgg acaggatctt ggctttctcg atcctcagct cctcgcccgc ggacatcccg 120

ggtgccggct acagcacgcc cacgcgcctt tcctggaggg gtggcagcgg ggagcagccg 180

gagaaagcgg cggacaagca tcggcaggag gagaaggtca accagggctc tcggccggag 240

aagaagccgg aggtgcggtt cgccccggag ttcgacggca tcaactgctt cgagtccatc 300

atctcctttt gagcggctga tccgctgttg tctcgggata gttatcgagc ttcatatcta 360

tttttgctgg ttgcttaatt agtgatgatg agacatgtat ttctcaaaaa gaaaatgtaa 420

atatttgggc ccgggcgacg gccgaagctt tcggccggtc ttatgcgcga cgcccgattt 480

agtgggatcg tgcg 494

<210> 4940
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a09b1

<400> 4940

tgttttcgga cgcgtgggtg gaagcacaca tccaagagga gccgctggga tgagatgttc 60

gagtacatca accgcgccag atatagtata ctcgtgactt atattgcctg ctggattaaa 120

taagtggtgt gttgtaaccc accaccatca agtcattctg tgctatataa tgtcaagatc 180

aatcaagatt agggtatgat gcccatgtaa atcttgtgat tgttctgact tacttttctg 240

gcttgtatgg atgataattg tatgtgtgtg ctggttgtac tatgattgtg tgatgatata 300

tattaaaatt tctactttgt acctttaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa 360

aaaaataaat aaaaaaaatg tctgtcttta ttaaaagatc catgataaat acg 413

<210> 4941
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a11b1

<400> 4941

ttgtttttt tttttgtgtc atatattatg cctcagccaa cgaacagcaa aataaattaa 60

atgtcactga cgaaaagaaa agaaaaaaga aaactatata tgatttcttc taagccaggc 120

aggccattct ctctgaatct gcttttgcgg tgcagaagct ccgtgttcag ggagatgaag 180

aaataccaga tgggtttttc tagctggtgc ggtgagtgcc agcgtgaaaa gagagaaagg 240

cagattcagt gcgtcaaagc gaccaagcat ttcttagggg tgctggaggg gcaatgattt 300

aagtcatatt tactgcatgt attttatgca atcctgtatt atattaaaca tcctttgatc 360

atttggaaac gtctagtata actgttgtcc aatttccagc tcgtattttg tcagtgtcat 420

tgcatcttat gtaaatctga acttttct 448

<210> 4942
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046b02b1

<400> 4942

tttcatcttt taaagatggt ttcttaatta tctgtaatta ggggggtcac aagagccttt 60

aatgtaacaa caattggctc cttttaacag gaaccacctc tgttttctag tgcagctctg 120

tctgatctat ttaaggttta acaagttttt gttaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaag ccgaaaaaat taaaaaaaaa aagacggctg aacaatagat 240

gctaccttag gtactatttc atagaggagc ctaattac 278

<210> 4943
<211> 236
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046b05b1

<400> 4943

tttgtttctc aacaggcaaa aggacatcaa gactggaaag tactcccaac tgctctccaa 60

cggtcttgac aacatgctac gtgaagatct tgaacgcctg aagaagattc gtgcccaccg 120

tggtcttcgt cactactggg gtctccgtgt gcgtggtcaa cacaccaaga caaccggccg 180

caagggtcgt accgtcggtg tatcgaagaa gaaataaggg cttgggcaac gacaat 236

<210> 4944
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046b10b1

<400> 4944

tgtgttttcg gacgcgtggg cggacgcgtg ggcggtggta gtgctacaag cgagtgacac 60

tagttcttgc accgatcaga tccaacttat gcacaggatg ctggacaagc tgtgggacga 120

cgtggtggcc gggcctcgcc cggagacggg cctcgacaag ctccgccggg ccgtcgccac 180

ccaacccctc gccatcaaca cagctgcagg ggaggcgatc aagcagtcgc cgtcgatgcc 240

gacgaccccg accacgccgg tgacgccgtt gttgtccacg ccgccgtgcg gcggcagcgt 300

gtggcggagc gttttccacc ccgggagcaa cctggccacc aagagccttg gcgccaacct 360

cttcgatcgt ccgcagccca acttctccac cgtttacgac tggctttaca gcgacgagac 420

caggacaagg agcaaccacc 440

<210> 4945
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046b11b1

<400> 4945

ccgggtcgac ccacttttt tttgatgtcc ttcttgtgat attcagaaac ctttatgaag 60

acaggtccct ggagttgaag tctttgcatg atgattttct gtgtctccaa gccgtaggaa 120

gtgagctttg taaggacatc aggatgatga acaagaagct tggtgatttt gaattcctgg 180

atgaccatct cggcaaagat acaaccatga gcatttgtga ccggtctagt gaagaaaata 240

atcacaaaga agttgacggc gctggccttc aagaatcaaa tgaaatgcta ctggaggaga 300

tactcaagtt acatggaaat gtggaaatgc ttatgagcaa ggagaaggct tctgtcgaca 360

tcagatcctg caatgaggag atcacaaagt tggtatccca catgcaaatg gccatcatga 420

atgcagttct gttcaaggag aagatcgttg agcttatcgt tacatgtgag agttatgaga 480

taagt 485

<210> 4946
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046c05b1

<400> 4946

atttggtttc ctccgtgcag ccgactcaaa agtaagctag gatacgggct ctaacgcact 60

ggctggaaga gaacccttat gagtgcatca atgcacggca ggaggcagca tgatgatgag 120

gagccattgt tactttacgg aggactccat cacaaaagat caactgagat gcacgcgtgc 180

gggcgatgag agaacaacgg aaccgcgaaa gcagcctgac gtggagaaga aaagcaacgg 240

ccctatgcgt ggc 253

<210> 4947
<211> 494
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046c10b1

<400> 4947

tttgtttgct gccctcccct tctccttagg ttaggttagg ctaggggctt cgcagagctc 60

gcggaaatgg tggccttcag gttccatcag taccaggtgg tgggtcgcgc gctgccgacg 120

cccggcgatg agcagccgaa gatctaccgc atgaagctct gggcgaccaa cgaggtgcgc 180

gccaagagca agttctggta tttcctgagg aagctgaaga aggtgaagaa gagcaacggc 240

cagatgctcg ccatcaacga gatctttgag aagaacccaa ccacgatcaa gaactatggc 300

atttggctgc gttaccagag cagaaccggc taccacaaca tgtacaagga gtaccgtgac 360

accacactga atggtgccgt ggagcagatg tacactgaaa tggcctctcg ccaccgtgtg 420

agatcccccc gcattcagat catcaagacc gcgactgtca acttcaagct atgcaagaga 480

gacaacacca agca 494

<210> 4948
<211> 495
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316046d03b1

<400> 4948

tttctcacgc gtccggacga cgaatcatta cagagcatta ttgacatgac ttctgactgg 60

acaaaggaag aaagagagat gttgagacgg aaggtgccag taactggttt gaagacgcca 120

ttccgggatg ggtatgtaag agatttagct gaagatgttc tccagttagc taagaatgga 180

ttagaaagaa gaggatacaa ggaggttggt ttcctgagag aagtcgacga agttgttaga 240

acaggagtga cacctgccga gaagcttctg aatctatacg agatgaagtg gcagcgcagc 300

gtggaccctg tgttcgagga gttgttatat tgatatgctg atatcgtata taacttcggt 360

ggaagctgga caaggtggac agggtcttca gattgtatcc ccatacaaaa tcccgtcccc 420

aattctacaa gccacctgac cagngaagcc tactctctgg tctcgcggct gcgaataaat 480

ttgaagctcg aacac 495

<210> 4949
<211> 354
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046d04b1

<400> 4949

cttggttacc accggagaac cacctccgat gctcacaacg agggaggcag gagccccgac 60

gccgccggac agagaccgac aagatctccg cccaacagcc ggacgcagca aggcgccacg 120

gcgccacggg agacagggag gagaacccaa gacagaacga caccggagag gaggacgaag 180

cgcacgagga gaacaaagaa gacgaggagg aagacgaact gccaccaaag aaaaaccggc 240

gcaccgcgtg ggccaacaga agaggaggcc gatgacacga agccgaagct agggaccggc 300

cggcgctaca caaaggacta actgggaaaa ccccgcagca tccaaacgga aata 354

<210> 4950
<211> 496
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046d10b1

<400> 4950

tgtttttggt gctattgggc ttatgcctat gattgatcag ggtgagaaag atgacaagat 60

catagctgtc tgtgctgatg atcctgagta ccgtcacttc agagacatca gtgaacttcc 120

cccgcatcgc ctacaggaaa tccgtcgctt ctttgaagac tacaagaaga atgaaaacat 180

ggaggttgca gtgaatgatt tcctcccagc agaagatgcc atcaacgcaa tcaagtactc 240

gatggacctc tacggttcgt acatcatgga gggcttaagg aagtgatctc cagttggcgg 300

actgcggatg ctacgcgatc cgccctacgg cttatcaata gtacgacaaa catctatgtt 360

aacatgatga tcgaaaacca tcagtctgtt ggggatctat ttataccttc tgtccatgct 420

gattaagcat gggtacattt ttctttcgtt tttgccatgt aggtccagtt tttgaccttt 480

gttggaacct ttttgt 496

<210> 4951
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046d12b1

<400> 4951

ccacgcgttc gaaaatttcc ccactcgcga accctaactt cgaccagcct ctcgccccag 60

atccccttcc cctactctca ccaggagcag aacccacccg ctcggaccgc tccgtgtaat 120

cgccatggcg gacgaggaac ccgttgatcc caagaagtat cttgaggagc ggtgcaagcc 180

acagtgtgta aaaccactgt atgagtatga gaaatgtatc aagagagtcg aggccgatga 240

tactgggcac aagcactgca ctgggcaata ttttgactac tggtcattgc atcgattaat 300

gtgttgcacc aaagctcttt gaaaagctga tatgatattg gggcgctact ttcagtgagt 360

gagcctggtc attggccaga actttgttca agttgaaata tttgaccaag tttgcaat 418

<210> 4952
<211> 597
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316046e01b1

<400> 4952

ttgcccacgc gtccgctgta agagaaaagg cagatcttct ttctgattct cagagaatta 60

aatatactat tgagactttc acgaagggca tccctgatgc aaggacgtac ttggataccc 120

ttcagcagct caggaaaaag agtggtctca tagatgatat gggtattgag gatatgatga 180

tggaagctct cgagaaagtt gagaaggaca ttaagaaacc tcttctgagg agtgacaaga 240

agaacatggg tctcctcttg gcagagtttg acaagattaa caaaaagctt ggcattcgga 300

aggaggatct tcccaagatt gaggaaaatc ttgaaatgga acttgccaaa gctgagctga 360

cggaacttaa gaaggaagtt gttgaagcaa tggagggcca actaaagagg gaggagttta 420

aagatgaggc gatgcctgac gtcaggaagt tggacattag aaacttcctc taggtccctg 480

attgatgata aaccctcgng tgaccgatct gtgatttttc ttttaagtga cggncgtgct 540

gtagccacac cgatggatgt attgttgctt ttgtataaac tgcacgaaat tgacagc 597

<210> 4953
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046e03b1

<400> 4953

ttgaataaat gctgcgccac gccgtccgcc gcctcgcctc ccgcgccgcc gctgccggca 60

gcggctccat gagccgcagg gccctcgcga cggcgcaggc gcccgcggag gcgggcgagg 120

accccgcctt cctggaggcg tggaagaagg tgaccacaat catcgagccc ccccagacgc 180

ccatgtcggc catgaagccc cgcccgccca cgccggcctc cattccctcc aagctcaccg 240

tcaacttcgt cctcccctac aagtccgaga tcaccaacaa ggaggttgac atggtaatgg 300

taccggctac aactggcctg atgggtattt tgccaggcca tgtttccaca attgcagagc 360

tcaagcctgg tgttatgtct gtacatgagg gaaatgatgt tacaaagtac tttgtgagca 420

gtggctttgc attcatccat gcaaactcca ttactgatg 459

<210> 4954
<211> 309
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316046e09b1

<400> 4954

ccggtcaccc gaaattctgg gcgaccaccg gcaaaccggc gcgggagccc accaagaaac 60

agccagcacc gcagacgccg ccggcagacc ctgangagcc cggcgccaga caaccggccg 120

aagcaaggcc caccggggcc aagagagcaa tgaggaggag tccacgacga aagaagaaca 180

gattgcccgc ctccggacgc tgggggaaca acagaaccgc gatgacagcc cgacggggac 240

gaaagaagaa ccggcgcccc gcgtgggaaa gctgaaagag gagcacgacg acacgaggcc 300

caagcttgg 309

<210> 4955
<211> 490
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046e12b1

<400> 4955

cgccgcagcc tccatcgaag ccaagagagg agcatggcga aaggaggccg tcggcgatgt 60

cggagaagaa gcgcgccccc ggcccgtgca aggacgaggt ggtgacccgc gagtacactg 120

tcaacctcca caagcgcctc catggatgca ccttcaagaa gaaggcacca aatgccatca 180

aggagatcag gaagtttgca cagaaggcca tgggaaccaa cgatgtccgc attgacgtga 240

agctcaacaa gcacatctgg agcagcggca tcaggagtgt cccgaggaga gtccgtgtca 300

ggattgcccg caagaggaac gacgaggagg acgctaagga ggagctgtac tctctggtca 360

cagttgcttg aagtccccca ggaaggtctt aaaggttcgg gtaccaaagt tcgtggatga 420

tgaggactaa acccccctggc tgttgattca atcagttaga atttaataca tattcgctga 480

gagcatattt 490

<210> 4956
<211> 477
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046f01b1

<400> 4956

tttgatagaa ggacttcttc ccttgttcct cgcccagtct ccttgttcct ccaagccaag 60

aaactgctct gtctgtgaga aaagcgagcg ggcgatcggc catggggaag atgtgctgca 120

gccaggagga ggaggaggcg gggttcaacc tgctgccgct ggtgatggcc gccttcgtca 180

tcatgctgct gttcgtcgtc tgctcgccgc agccccggcg caggcgctgc gtcgtcgtcc 240

cgtgctactg acgtggcatc atggtggtgg tgcggtggtg ggagcctcga cctcgatcgg 300

cggcgctcaa ggcaggcaag tggctgctac tgtggtggta ggcgtttggt tggtgtctgg 360

atttttctga ctgatgcgtg ttgggttggg tggaagaata atctcaattt ctgctgaatt 420

ccatcggact gtaaagctaa agtcattctc ttgttgcaag tctatcttgt tgttaat 477

<210> 4957
<211> 545
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046f03b1

<400> 4957

ttgtttatcg cgtccgccga aatccccaat tccccacccc agagcgtcag cgagagagat 60

ggcgtcggcg acggagatgc agtcgctggc accgtcgggc taccgccggg cgccggagat 120

gaaggagaag gtggaggcgt cgtcgatcga cctggaggcg gggaacgggg agacgctcta 180

cccggggatc tcgcgcgggg agaacgccct ccgctggggc ttcatccgca aggtctacgg 240

catcctctgc gcgcagctgg tcctcaccac cgtcgtctcc gccatcaccg tcttccaccc 300

caccctcaac gccacgctct tcaactcgtc cgtcctcgcg ctcgtgctcg ctgtccttcc 360

cttcatcctg atgatcccat tgtacatcta tcagcacaga caccctcaca atcttgctat 420

cttgggtttg ttcactctgt gcttgagctt cagcattggt gtggtttgtg caaacactga 480

agagactatg gtgcttcaag cattggtact gacctcagct gtggatgtct ctttgactga 540

tacac 545

<210> 4958
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046f11b1

<400> 4958

tttctgtgcg acttcctccc ccctcttgcg aaggtctagg gtttggctgc gtagacgaga 60

gaggctttcc ccctcgttca gtcgggagcc gtcatgagcc gatcggggca gtcgccggat 120

ctgaagaagt acatggacaa gaagctccaa atcaagctga atgcgaaccg tgttgttatt 180

ggcacgcttt gtggatttga tcagttcatg aatttggtgg tggataacac tgtggaggtt 240

aatggagatg agaagaccga catagggatg gtggttctga gaggaaatag tgtggtgatt 300

gattgaagcc tttgaaccaa ttgccaggcc ttagcgatat ctttgcctac ctgcttttg 359

<210> 4959
<211> 517
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046g03b1

<400> 4959

ttctttttg aggtcactgc aggaggagaa taaagttctc cataaggaag taagcccgtt 60

atatcacctt tggtccaacc ggtctaaatt gtttcgtata gcatatttta ttgacagagg 120

tccgtgtccc ttccccacag ctcgtggaga agcagaaggc ccatgtggcg catcaagatc 180

aaactcagcc ttaaaccagc tcttcatctt cttccttcat gctgagggat gctcccccctg 240

ccgcaaatac cagcattcat tcagcggcaa caggcgagag ggcagaggat gcggtagtgc 300

atccgcaggc cccaccccgg acggggcttc caccgtggat ggtgagccac atcaacgggt 360

gaagggcatc cagcccatac aggcgtacta ttcagtagag ggtaacaagt tgcaccggcc 420

agcctggtgt atgttgcggt tgctagcacg cctgacccct tttgagggga aaggataaga 480

aattagagta aagtatcaag ctgcagcgat gtgtata 517

<210> 4960
<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046g04b1

<400> 4960

tttcttacgc gtccgcccac gcgtccgccc acgcgtccgc ggacgcgtgg gcgcgaaaag 60

accagagtgc cccgcccctc atccccgaag tctccaaacc cctcgtcgga agaggtgagc 120

aagccttcac gatggcggtg gcggagctct gggagacgct gaagcaggcg atcttagcgt 180

acacggggct gaccccgacg gccttcttca ccgccgaggc ggtcgccacc gggctgtacc 240

acgtcgtgtc ggggatcttt gcgccgccgc cgtctccccg gca 283

<210> 4961
<211> 239
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046g08b1

<400> 4961

ttttgattct gtatcattgt aatagtgaga ctttactaca cccattctgt cggtagaaca 60

ttctcttagg agattgtttt atttgttttg gttgagatat actaaaggct gtgtacctat 120

ggaaagaaaa aatacacttt caagttttgt atgtagtact tgatgtatgt ctcaagtata 180

acttataatg atccaaaaaa acgagacgat atactggccg cccactaaga acaacaagc 239

<210> 4962
<211> 194
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h02b1

<400> 4962

tttgggtcgc gtgggcggac gcgtgggcaa ctagtaaaga acattgcatt gccaactgct 60

cttaggtcat cacaaaagag ttaattgacg ttggtgatac aattaaaaaa aaaaaaaata 120

aaaaaataaa taataaaaaa aaaatacatt attaaatatt gacaaaaaaa aaaataaata 180

aaagataaat aaaa 194

<210> 4963
<211> 202
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h08b1

<400> 4963

tttcttccca cgcgtccgca agtgcaggtg gcacgcatag ctattgactc ggagctaggt 60

acataaccat ggccatgggt tctgtctgct cgagttcaca ggtagtgatc gtggctctcg 120

ccacggaagt atacatgcac gctgtagcta ctgatgacga cacggatggc cccatggact 180

ctgactccaa aaagagcagt gt 202

<210> 4964
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h09b1

<400> 4964

ttgtttttgt acacctccat ttcattatcc ggggagctca ttatctaatt cacggcaaca 60

ttcgcatgtt taccactact agtcatattc ttgtgtggac caacacgtag tctgctacga 120

tacgttggct cttggctgtc accatgatat ggacatgata tgcagagcga cattgtgcat 180

ggccattttc aactgctact tcctccgttg ttttagtctg catataaaat ctggtcaaag 240

tcaaacttag taaagtttga tcaactttgt agaaaaaaaa attaatatct ataatacatc 300

atatagtatg aaaattaatt tcatgatgca tctaatatta ttgatttcat attgtgaatc 360

ttgatattta ttttctataa atttagtcaa agttaacaaa gtttaatttt gacccaattt 420

tatatgcaga ctaaaaagaa 440

<210> 4965
<211> 479
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h10b1

<400> 4965

ttgttgccca cgcgtccggc gcgcggggtg gccttcatgg tggacaactg ctcgacgacg 60

gcgcgtctgg ggtcgaggaa gtgggcgccc cgtttcgact acatcctgac ccagcaggcg 120

ttcgtgacgg tggacaagga cgagcccatc aaccaggacc tcatcagcaa cttcatgtcg 180

gaccccgtcc actgcgccat cgaggtctgc gccgagctga ggcccaccgt cgacatctcg 240

gtgacggtcg acgccgactt cgtgcgccct gagcttcggc agtcctccta ggctccgccc 300

ttgcacctaa gtttactaag cttgcgccgg gccggtcggg gccccgtagg agagttggtt 360

tttgatggat ggacattcat gggactgaat ggatgggtgc gactagctgg attgatctct 420

ggagcagctg ttgggtaaag gagtctcttt gttccaaaaa ataaaattgg ttcgccggt 479

<210> 4966
<211> 524
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h11b1

<400> 4966

tctgttttcg tgtattaaat gcttatgcaa ggttccttga tgacacacct gagctagtga 60

agattgttag agtatcatgt ggagagtacc atgcagcagc tatatcagaa aacggggagg 120

tgtatacatg gggacttgga agcctggggc agcttgggca tcgctcgctt cagtctggag 180

ataaggagct aatcccaagg cgagttgttg cccttgaagg aatagtaatt agggatgtgt 240

cttgtggtgg ggttcactct tgtgctgtga cggaaggtgg agccctctac tgttggggag 300

gaggacatgt gggccaactg gggcttggac ctcagaatgg tttcttttca tgcgctctta 360

atggatccga catgctactt tgtaacattc cagtcctggt cataccatca ggtgttcggc 420

ttggtacttg tggtcactca cacacactta tatcgatgaa agatggccgt atttatggat 480

ggggctataa tagttatgtc aggcagctta tgagaaatta ctta 524

<210> 4967
<211> 528
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h12b1

<400> 4967

cgtgtattaa atgcttatgc aaggttcctt gatgacacac ctgagctagt gaagattgtt 60

agagtatcat gtggagagta ccatgcagca gctatatcag aaaacgggga ggtgtataca 120

tggggacttg gaagcctggg gcagtttggg catagctcgc tttagtctgg agataaggag 180

ctaatcccaa ggcgagttgt tgcccttgaa ggaatagtaa ttagggatgt gtcttgtggt 240

ggggttcact cttgtgctgt gacggaaggt ggagccttct actgttgggg aggagcacat 300

gtgggccaac tggggcttgg acctcaaaat ggtttctttt catgcgctct taatggatcc 360

gacatgctac ttcgtacatt ccagacctgg tcataccatt aggtgtaccg cttgttactt 420

gtggtcactc acacacactt atatcgatga aagatggccg tatattctga tggagctaat 480

atatgtatgg tcaggcagtt tatgataaat ctactaatgc tggtccct 528

<210> 4968
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047a07b1

<400> 4968

ttttctccca cgcgtccggc cggcttcatc gtggccgcgg tctacgccgt gtccgccatg 60

tgatctgatc tgattggcgg atcgacgcgg cctcttcttc ttgtcagtca gacagtagtg 120

attccgtttg agattatata tactggggtt cggggatcga attggcgcgc atacatgtga 180

tatgcgaatg tgatccatgg ccgattccat ttgtaatttg ttgtaccgtg acatgccatca 240

gcttatctac ttgattgatt ccatattata atatttttt tttaactttt aattaatata 300

t 301

<210> 4969
<211> 278

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047a08b1

<400> 4969

ttcttcttcg ccatctacgc catcaccaag taaatcaagg cagccgcccc gagtgttccg 60

gcggaatagt agtatatttc catgatgatc tcgcctgtct attcctagcg tgctcgggtt 120

attgcttgtg tgggttcttt gaattctttt ccgtgtacgt tgacgatgcg aatttctctg 180

tggtttccat ggaccgtgtg aagagatttc agcttcttta tatgtactat gtatatgcac 240

tagtatcatg tatgggagtt tatgcataca gtccttat 278

<210> 4970
<211> 470
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b04b1

<400> 4970

attttagtct gactactgac acatacacac acacacaagt gctagctagc taatcgatca 60

ggcagccatg tcggaggaga agcaccacca cctgttacac cacatggagg gcgaggactt 120

ccagcccgcc gctgactgcg gcgtctacac gtacgggtac tcgaccgtta cggtggtgac 180

cgtcaccggc aaccacagcg agtacgagcg gatcaccaag gaggagaagc accacacgca 240

cactgagcac ctcagcgaga tgggcgcagc ctggggcgga gccttctacc tctacgagaa 300

gcacgaggcg aacaaggacc cggagcacgc gcacaagcac aagatcgagg aggaggtggt 360

tgccgacata gccgtcggcg ccggcggctt cgtcttccac gagcaccacg agatgaagca 420

tgaccacatg gaggccaagg aggccagcgg cgagaagaag caccaccact 470

<210> 4971
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b05b1

<400> 4971

tttccttcgc gtccgcccac gcgtccgcaa atatagattt ggcggtgtga ctcttgaaac 60

tttcttgatg atttgtggct ttgttaccgt gtcgaaaggc cctcctcccg tggtccgtgt 120

gaccacggag ggcttgctct atcatgtaat ctgttctttt tcttctgccc atttatatgc 180

cgggccttat gctgctgcac tgcactgttc ctccaagtta cggttataaa taattaaatg 240

ttctgtttgg att 253

<210> 4972
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b06b1

<400> 4972

ttttataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gggggcccct ttaggggccc 180

cagttttcct ccccggggac gcccccaaaa ttctttttt ttggggcccc caaattaaaa 240

ctatgggccc cctttttcc accttggggt tgggaaaacc cgggggttcc cccacttaaa 300

tggcttgggg acccccccc ttttcccggg gggggatata tcaaaagggg cccccccaat 360

tcccctttcc aaaatttgtc ccccctctta tgggttatgg ggcccccccc tttatggggc 420

cttttagccg gggggggggg gtggttcccc ccagtggtcc cctt 464

<210> 4973
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b07b1

<400> 4973

actttgttta caccgcagat atgccacccg tgttcaccct gattaccacg agagatattt 60

tgttcgtccc gtccacctac taacggcata taaaagcaga ggggatcatg aacaccattg 120

cgatgtcatt gcttatctct gacggacccc ttttcatacg atgagctgtc tggacggctg 180

cggtctactg gtgcacatgt tggcagctgt ttaagaccac cggctgcgaa cgagaaactg 240

gttctccgcg tagcagatct acaagaagct cttgctcaca cctaggccta aactatgg 298

<210> 4974
<211> 524
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b09b1

<400> 4974

tctttttcc acgcgtccgc ccacgcgtcc gatggacatg gggaggaaca ctgtgacgac 60

agggatccgt gggacaatgg gccacatagc tcccgagtac tttaagaccg ggaggccatc 120

agtgaagacg gacatatttg gatatggtgt tatgttatta gagattgtga caggccagcg 180

tgcaattttc cccgatttcc tcgaaggagc tggcgaggtc atgctcatcg atcaagtgaa 240

actgttgatg caagaagggc gattggaaga aatcgtagac cgcaatatag gctgtggata 300

tgactttcaa gaactagtaa aaattatcca agtagcactc ctctgcacca atattgaccc 360

ttgtcaacgc cctgctatgt cggaagttgt gcatatgctg gaagaaaaaa ttgtgccaga 420

agatcagtgg gaggagtggc agcaagctga gcttacccgt cgacagcagt acgaatataa 480

gcagcaccac atattattca ccttcagtga ggagtcactg aaca 524

<210> 4975
<211> 70
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b10b1

<400> 4975

ttttttgga cgcgtgggcg gacgcgtggg tatttttctc aagcgccgtg tatatacacg 60

agatcaagtt 70

<210> 4976
<211> 52
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047c03b1

<400> 4976

tttcccacgc gtccgcccac gcgtccgcca cgcgtccggt tctagatcgc ga 52

<210> 4977
<211> 538
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316047c07b1

<400> 4977

tctttttatt ttcatccccc cgcccgccgc cgccgccgcc gctagaccag ctcgccagca 60

gcaatggccc ggatcaaggt gcacgagctg agggggaaga acaaggcgga tctgcagggc 120

cagctcaagg acctcaaggc ggagctgtcc ctcctccgcg tcgccaaggt caccggcggc 180

gcccccaata agctctccaa gatcaaggtg gtgcgcacct caattgcgag ggtgctcacg 240

gtgatctcgc agaagcagaa ggcggcgttg agggaggcgt acaagaacaa gcgtctcccg 300

ctcgacctgc gccccaagaa gacccgcgcc atccgcaggc gtctcaccaa gcaccagctc 360

tctttgaaga cggagaggga gaagaagcgc gagaagtact tccccatgag gaagtatgct 420

atcaaagcct aggttaggag gacatgtttt acccgccgag tttgctcaga agtngcatga 480

attttatgtt ctgtgtggac accgctgcta tctaagtact atgtattcga tatcctgc 538

<210> 4978
<211> 255
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047c10b1

<400> 4978

tctaaaacta aaatgcgtct agatacatcc atttcctcga caagtatttc cggacggagg 60

gagtactata tagacgttgt aaagtaccga agtctttttg tacataaaat ttggcaaaag 120

aacatcctca gaattgacga aaaaataaac aaaaaaaaaa taaaatatta aaataaaaaa 180

aaaaaaaaaa ataatataaa aaaaaaaata tacataatat aaaataataa ataatcatat 240

gggggggcccc tttta 255

<210> 4979
<211> 417
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047c11b1

<400> 4979

tgcctgtcca cgcgtacgtc cacgcgtccg gtcacgcgtt cgttcctcat ggtgatgctg 60

gacttactgg tcgcaagatc attatttaca cctatggtgg ctggggagca cacggaggtg 120

gtgctttctc tggcatggac ccaactaagg ttgaccgaag tggcgcctac attgccaggc 180

aggctgccaa gagcattatt gctagcggtc ttgcacgccg ctgcattgtt cagatctact 240

acgccattgg tgtgcctgag cccttatctg tctttgttga cccttatggt actggcaaga 300

tccccgatat ggagatcctc tagattgtga aggagaactt tgacttcagg cctgggttga 360

tcagcattaa cccttgactt gatgaatggt ggtaacaggt tcatcaagac cgccgtt 417

<210> 4980
<211> 492
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047d01b1

<400> 4980

tttgtctagg caggggcttg gaaaagcaag cttgaaccag catctaggga gttgtttgac 60

ttcttgccca aaaccattca ggagcagctt ttgcttgaaa gagatcccca tggcaatgtt 120

caggttgcga aaattgaaac tgagaaaatg cttattgcca tggttgaaac tgaattggag 180

aagagaagag cggcggggaa gtactctgca catttcagag gccagtctca cttcttcgga 240

tatgaaggaa ggtgcggcct ccctaccaat tttgattcca gctattgcta tgcattaggc 300

tatggtgctg gtgctcttct ccaatttggc aagacaggac ttatttcgtc ggttgctaac 360

ctggctgctc ctgtggaaga atggactgtt ggaggaactg cactgactgc gttgatggat 420

gttgagagga ggcatggcaa gaacaagcca gtgatcatga aggctatggt gggacttgat 480

gctgcgccat tt 492

<210> 4981
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047d03b1

<400> 4981

tttagtctcg agcagaggta gtaatcacag aagaatctgc tgcccctgcg tgcttgtttg 60

gagcttggtg cctggaggcg aggctaggaa gaagatgacg aggcggttct tgcctctttg 120

cgcgctcctc atcgtgctgc tctgcatggc ggcgagcctc gcggagggga ggcgcggcgg 180

ggggcgcccc atcatcggcg gcggcagcgg cggggccaga gggagagggt caggcagccc 240

gcgcggcctc agcggcggca cctgggcggc gtgcgtcggc tcctcgctgc tggtcgcggt 300

ggccatgctc ttctagcttg cagcggcgag aagaactcaa gaaggatggt tgggcaatgt 360

aaatgttctg tggattcgtt ggttctttac tactactgtc gatttgattg ttgttgtata 420

tacgtacaga tacattcgtg agcggattga tgaattcatt tgacatgttc tatcttgatt 480

aagtggatta tgggcag 497

<210> 4982
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047d04b1

<400> 4982

tttacttaac ctgggcagct ctctcctcgt tgctccgatt gccgccggga agccaaaggc 60

cgccgtccgc cgtcatggac ccaagctccg agatcgtgta cgacatgccc ggcttcatac 120

gcatccacaa gagtggccgc gtggagcgct tgcaaggcac cgagaccgtc ccgccctccc 180

cctccggtga ccccgccaac ggcgtcgcct ccaaggacgt cgtccttgac ccggcggcca 240

acgtctccgc ccgtctctac ctccccgccg ccgccgcggc ggagcctgga aagaagttcc 300

ccgttgtcgt ctacttccac ggcggcgcgt tcgttgtcca cacatcggcc tcaccgatct 360

accacaagta cgccgtcttc ctcgccgtcg tcgcgcccgc cgtcgtcgtc tccgtcgact 420

accgtctcgc tccggagcac cccctcccgg ccgcctatga cgacgccttc gcggtcctcc 480

aggcgatcg 489

<210> 4983
<211> 483
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047d05b1

<400> 4983

gcgtgggcgg gtatattgga gctccgatgg agtggtgtcg gcatcgagga ctggtggagg 60

aacgagcagt tttgggttat tggtggcaca tctgcccatc ttttcgcagt gttccagggt 120

ctgctgaagg tgttggccgg gatcgacacc aacttcacgg ttacatcgaa ggcaaacgac 180

gaggacggcg actttgccga gctatatgtg ttcaagtgga cgagtctcct catccctccg 240

accaccgtcc ttgtgattaa cctggtgggc atggtggcag gcatatcata tgccatcaac 300

agcggttacc agtcctgggg tccactcttc ggaaagctct tcttctcaat ctgggtgatt 360

ctccatctct acccccttcct caagggtctt atggggaagc aagaccgcac gccaaccatc 420

gtcattgttt ggtccatccc tctcgcctcc atcttttcct gctgtgggtg aagatcgacc 480

ctt 483

<210> 4984
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047d09b1

<400> 4984

ttttctggcc gcagtacgtg ctcctgggcg cggcggacgt gttcgccatg gtcggcatgc 60

aggagttctt ctacgaccag atgcccgtgg agctcaagag cctcgggctc gcgctctacc 120

tgagcgtcct tggcgtcggc agcttcatca gcagcttcct catctcggtc atcgacggcg 180

cgacgaggag gggcggcggg acgagctggt tcgccgacaa cctcaacagg ggccatcttg 240

attacttcta cctgctcctt gctgctctca gcgcgctgga gcttcttgct ttcctctact 300

tctccgcgac ttacatttac aagagaaagc ctgtcaatgt tcactgaccg agactgatac 360

attcgtctta tgttctactc cctctgtt 388

<210> 4985
<211> 473
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047e06b1

<400> 4985

ttctgtagct cctagccaac accaatcaaa gcctccatcc aatcccaagc aacctcgagg 60

atgtcttgct gcggaggaaa ctgcagctgc ggcagcgcct gcaagtgcgg caacggctgc 120

ggcggctgca acatgtaccc ggaggttgag gccgccggcg ccaccctcct cgtctccgcc 180

accgccaccc acaaggcgag ctcgggcggg atggagatgg cggcggagaa cggcggctgc 240

ggctgcaccc agtgcaagtg cggcaccagc tgcggctgct cctgctgcag ctgctagatc 300

tatcatcggt catgcatgca ccgcgcgcat catatctatg atctatctac aatctactta 360

ccatgtaacg ccacctgatc gagggtcttt gtatgtatgt aagcacctgc cagcatgagc 420

agagcaggtg cactgccatg catgtaaacc gacccctaaa taaaatcttc cgt 473

<210> 4986
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047e08b1

<400> 4986

ttctttttgt gagtgagcga gcgagctagt ctttcttctt ctgaaaccat gtgcgagtcc 60

gcctccctac tagctgcagc cggagaccaa gacggccacc accaccaggg ggtgaccaag 120

gcagccgaga tggacacggg tggcctgctg gaccattccc cggcagccct cggcccgagc 180

cctcttccca cgccgcctcc accgctcgtg ttctaccaag acgattaccg gtactactac 240

gacgacgaca gttgcctcca ggaggaccag gagggcgacg acggcgccta tcaactgctc 300

caggacgagg aggaggacgt cgccgccacc agctcgcttg ctgccaggct acgtgagctc 360

gttcgccaga agctggccga ggtgaacgcc tccagcgcgg tcgtcgcggg gctcggcctc 420

gtcgggagcg ccgtcggcgc ctactttctc tggccc 456

<210> 4987
<211> 81
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047e10b1

<400> 4987

tgcccacgcg tccggcctag ttgcctggaa gaaattaaca aaaaaaaaaa aagaaacaca 60

accaaaaaaa aaaaaaagaa a 81

<210> 4988
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047f04b1

<400> 4988

ttgtttctct gtccaccggc cggagggaag ggagaaaaga gaaagctagc tgcctttgtc 60

tttgggccat ggcggagttc aagcaccttt gcatggccaa gttcaaggaa ggcgtcgtgg 120

tggaggacat catccaggag ctcaccaagc tcgccgcgga gctcgacacc gtcaaatact 180

ttgggtgggg caaggacgtg ctgaaccagg aggcgctcac gcagggcttc acccacgtct 240

tcgtcatgac cttcgccagc gccgaggacc tggcggcgtg catgggccac gagaagcaca 300

ctgccttcgc agccaccttc atggcggcgc tcgacaaggt cgtcgtcatg gactttccct 360

tagtcttcgt taagccggcg ccg 383

<210> 4989
<211> 502
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316047f06b1

<400> 4989

ttttgtttgc gtgggcagga ttgtgctttg tgtgaggttg ctttgcaata ctggtgatga 60

tgtgaggagg atttggttgc aatcatgtag acagagtttt gcgaagatgc ttgctgagaa 120

gcaattcagg gagacagagg agatgagggc caaggcacag atctctcatg cccagccaga 180

tgatcttatt gacttctacc acctcaagag cagaaagggc atgagccagc ttgagttgga 240

ggacgaggtc caagatgatt tgaaggctgc aactggtgga ttcaccaagg aaacagatga 300

tgcaaataga cttaatcgca ttcttcagtt gactgggttc agtgatcctg tatatgctga 360

agcatttgtg acagttcatc attatgatat tgtacttgac gttactgtcg ttaaccgcac 420

ataggagaca cttcagaacc tgtgtttgga actagctacc atgggagacc tcaacttgtt 480

gaccgtnctc agaactatac tt 502

<210> 4990
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047f07b1

<400> 4990

ttttctgatc atccctgata ccaaagctca tctgcttctc cttgaaatct tattgggtcc 60

acagatttgg aggatgtctt gcaactgcgg atcaggctgc agctgcggct cagactgcaa 120

gtgcgggaag atgtaccctg atctgacgga gcagggcagc gccgacgtcg aggtcgccgc 180

cgtggtcgtt ctctgcgtgg cgcctgagaa caaggcggga cagttcgagg tggccgtctg 240

gcagtccggc gagggctgca gctgcggcga caactgcaag tgcaacccct gcaactgtta 300

agctgcatgc actcgttcgt agtacgtgtg atggtgtgag agaatacgtg attaactagc 360

gt 362

<210> 4991
<211> 553
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047f09b1

<400> 4991

tctttttccc acgcgtccgc ccacgcgtcc gatttgggat atggcatgaa gggttcaagt 60

ggctattcac attggtaatc tgtgatattt atactgcaga ccaaatgcgg aggtaaactc 120

tggtttgtgg tgttctaaga agttcccaag ctcgtgcata cagtgttgac cccttagtca 180

cctgctacgt ctgcatccag cacagcacac acatcaccat caccatcacc aatgccatgg 240

cgcgcccctc ttgctgcatg cggttgccac atatcatttc ttctgagcct tcctgcttcc 300

tgttcgattg gtggagcatt ttggactaga agcggctctt tgtaaattta ttgtaccgct 360

ttaagattag taggggcatg gttcttcttg atgtgtaagc tatgattgtt tgtgatcatt 420

tggagatgtg attgtatgtt ggtaaaaact aacaggttgg atattgaaga gcaggcgagg 480

agattgtatg ggttgagaat acagagtcaa gaattctaga atctgttggt gcctgagttc 540

tgttaatcat ata 553

<210> 4992
<211> 546
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047f12b1

<400> 4992

tcgtttcgca ctgccccacc gcgccggccc cgactccgac tccgacactc cccggcggcg 60

cgcgctcgcc gagctcggtc gcgctgcggt tcggatcccc cggaggcgtg cggcttcggc 120

gcgggcgagg gtcggcggcg gtcgcgatgg catccgacgg gcgcgtggag cggatcgcgt 180

ccagcatccg cgccatcccc aacttcccca agccagggat tttgtttcag gacatcacaa 240

ccttgcttct cgatccgcag gcattccgtg acaccactga cctctttgtc gagcggtaca 300

aggacaaaga cataactgta gttgctggtg ttgaagccag aggattcatt tttggtcctc 360

ccattgcatt agccataggt gcaaagtttg ttccaataag gaagccgaaa aaattacctg 420

gtgaggtgat atcggaagaa tattctctgg aatatggcac tgacaaaatt gaaatgcacg 480

taggagctgt gcagtccaat gaccgagtcc ttattggtga tgatctattg ccacaggggg 540

aaccct 546

<210> 4993
<211> 492
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g02b1

<400> 4993

ttttcttctc gtccggacga agcgctcttc ggtgatccgg tttctgaatt tgctggtcaa 60

aacgttggcg ttgtgattgc tgaaacacag aagtacgcct atatggcggc gaagcaagcc 120

gtcatcgagt atagcaccga gaatctcgag ccgcccattc tgacaataga ggatgccatc 180

caacatgaca gctacttcca tcctcccccа tttttggctc ctaagccagt tggggatttc 240

gagcaaggga tgtctgaagc tgatcacaag attttatcag gagaggtgaa acttgaatca 300

cagtactact tctacatgga gactcagacc gtcttggccg tccccgacga agataactgc 360

atcaccgtct atggcctaac tcagataccc gaggtcacgc agaatgtcgt cgcggactgc 420

ctcagcattc cgtaccacaa tgttcgcatc gtaacaagaa gagttggcgg cggcttcggc 480

gggaaggcaa tg 492

<210> 4994
<211> 275
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g05b1

<400> 4994

tgttttgcgt gggcgctcat gttaccatgt ctgttccgtc agttttgagt cataagtgag 60

acccttggag gaaccatgtt tcatacccgc cctagtttgt tccctgacag tgttagaaga 120

attgtttgtg tcgatctata attattgttt gatttgcact agggatcgct gcttgttaaa 180

atttgcggag cctgctgctg gattttcaca ctaaacagag actaaaaaag aacaggcgct 240

acttgtggca aagataaaag atgatactag attcg 275

<210> 4995
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g06b1

<400> 4995

tttccttcgc gtgcggggtg agaagaactc gtccggggac ctgatgtcca gcagcaagct 60

ggtcgcggag gccgccaaga cggcctacga gaagaagagc gtcgagggca tcgacaagga 120

aaaggtagcc gccgcctccg tcgacatcct cgactccgcc gccaagtacg gcaagctgga 180

ggacaagccg gtggggcagc acctctagaa ggctgagggg tacctgaaac agtacagctc 240

cggcggcacc gagaaggaga aaaccgacgc acctgctgcc gctgacgcac cgaagccgga 300

tgcacccaag gaggcagcgc ctgcgcctgc ccctgccgcg gaggaagaga aatcgtccga 360

tgggttcggt ctcgacgacg tcatgaaagg ggctgcatcg ctgtctggga agaagag 417

<210> 4996
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g08b1

<400> 4996

ttctgtctga tgccctacat gctgctgtac cccaacacgt cggacgccgg cggcgagaaa 60

gggctgggcc tcaccgacat gggcatgccc aacagcgtct ccatctgagc tgagcgaggt 120

cctttaatct gaacagcgtc tcgttcagta gattggctgg ttcgtgtctc gcgtgcaggg 180

tgtattgtgt tcctttaatc cttctcatca ttcgcttctg ggtggttgcc gtaattagtt 240

gcgagggatc agtggacgat ggcaaatgat gatcgtagat gatgttgatc gggagagaac 300

aatgaggcat gaataagcag tcgtgtgtgc attcctctta tctc 344

<210> 4997
<211> 123
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g09b1

<400> 4997

tgtctttctg cggacgtaga aggaatcatt tcttgttgat aatttcatca agaccgagca 60

acggccattc ctgacagagc cggacagccc ctatacctga tgaccgtggt aagaacgaac 120

ctc 123

<210> 4998
<211> 256
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g10b1

<400> 4998

ttgtctgtct agctaggatt ctccagctag gagtcattat ctggttcgtc ctctgaaccc 60

tgcagttgca tcgtagtggg acagccagtg tgtcggttga cgggtgagtg gtatgttcct 120

atcatggctg cgtgatagca gcgcgcataa tgaataatgg aatgtgctgc ttagccccac 180

gaagtctgca tcgtgcccta cctccctgaa tgatgtgcac ttgaagtctt gagcatgcaa 240

gttcagttta atgccc 256

<210> 4999
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g11b1

<400> 4999

ttgtttggcg gcggcgcgtt gcacaggaga aggagctggc ggcggcggtg cccgaagagg 60

agaagcacgg cgacctagcc cgagctcgca accatggcta ggggtttgaa gaagcatctg 120

aagaggctca atgccccgtc tcattggatg cttgacaagc ttggtggagc ttttgccccc 180

aagccatcat ccggtcctca caaggccagg gagtgcctgc ctctgatcct catcctgagg 240

aacagactga aatatgctct cacctaccgt gaagtgcaat ctatccttat gcagcgtcat 300

attatggttg atggaaaggt ccgcactgac aagacctacc ctgctggttt catggacatc 360

attttcattc ccaagactgg tgagaactac aggcttttgt atgacacca 409

<210> 5000
<211> 564
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g12b1

<400> 5000

ttctgttttc ggacgcgtgg ggcgtctccc aacttttcct tccaaacagc ggtgacctcc 60

accaccaccc aagagccgag cgaggagaag agaagagatc ggccatggct gcggacggcg 120

agaggtgggt gggcctggcg gtggacttct cggaggggag ccgcgcggcg ctgcagtggg 180

cggcggacaa cctgctccgc tccggcgaca acctgctcct cctgcacgtc ctcaaggacc 240

ccgactacga gcagggcgag accctcctct gggaggcctc cggctcgcct ttgatccccc 300

tctcggagtt ctctcaccct tcaactgcaa agaaatatgg ggtgaagcct gatgctgaaa 360

cgctggacat gctcaacact atagctaagc agaaggaggt ctccgtggtt tcaaaagtcc 420

tgtttggaga tccccgcgag aagctgtgcc aagccatcca tgacatgccc atcagctccc 480

tggtcattgg gagcaggggc cctggcaagc tcaagagggt gctcttgggc agcgtcagcg 540

attacgtcgt gaacaatgcc gcct 564

<210> 5001
<211> 214
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h03b1

<400> 5001

tttccttcgc gtccggacgt tgtgtaagac tattgctgtt taatgtatgg aacttctgta 60

tcgaccgcgc ttcctagctt tgaatgatcc tggggctagt gagccgacta gataggaaag 120

cgaggctgga ttaacaattt gaagccgata atgttgaaac agtgtatgac tagctaacta 180

tgtacttata tatatatata caaacaagga tgtt 214

<210> 5002
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h04b1

<400> 5002

tttctttctc gtgcggacgc ttctgctgaa ggtaggggta taagagtaga acgaaggata 60

gatactgaac acactaactg aaaattaaac ctaggtaaat taaatgagat agtcttaaag 120

atccaaaaga tataaaaata tgaaaccgag taaaaagaaa atctggaaga cctgattcat 180

attgaataaa aataaaacct aacagagatg aaattctaat ccaaacaaa 229

<210> 5003
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h09b1

<400> 5003

ttgttttatc acgaaagcac acgcagtccc tgacacttgc tccatcaata ccgatcgatg 60

gccatggtag ctagagccgt actactcctg gccatggtgg ccgtggcaag cgccacctac 120

tgcccccccgc cgtcggcgcc ggtgccggtg cccctctacg ggtcgtgccc ccagaacgcg 180

ctcaagctgc acgtgtgagc caacgcgctg aaccaggtga aggccaagat cggcgtgtcc 240

gcaactgagc cctgctgctc tcttctagac ggtctcgtaa accaggacgc ctcctatcgc 300

cttt 304

<210> 5004
<211> 500
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h10b1

<400> 5004

tcacaaagcg cttgaggatg tgaggttttc tgtttgtgtc ttttttttctt cttcttagat 60

tcgtttgttt caaaatgatt tatcactcgt accgcgtgtc caaatgatga accgctttca 120

cctttgtgtt tctcgcgcct aggttttcaa aactcggtcc actttggtag gttttgatga 180

acagttttct gcaaaatcta tgctccaagc tgtactaatc catgcttcaa aactgactaa 240

aatgtgcttc aaactatact aaggtgtgct tcacttttttt tgggacgcac agtcgctttt 300

tcacatgagt agcacatgtg tgcttcacac gaaaaaccat aataaaagaa ccgaagatag 360

aaaaaactgc aaattgaaaa ttcatttaca attaacatag atcaaaaaaa tggaaattaa 420

aaaaccaggt accataaaaa aatctgaaat tcaaagtgga gaccaaaaaa gctgtaatac 480

cagcttttac cctgacactt 500

<210> 5005
<211> 240
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h11b1

<400> 5005

tgctccctct cctcctctag caaccaagcc aagctcaagc ggcatcaatg gagggcaagg 60

aggaggacgt gcgcctgggc gcgaaccgct actcggagcg ccagcccatc agcacggcgg 120

cgcagggcgg cggctcgtac gagaaggact acaaggagcc gtccccggcg ccccttcttcg 180

aggcggagga gctcacctcc tgatccttct accgggccgg catcgccgtg ttcctggcca 240

<210> 5006
<211> 466
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h12b1

<400> 5006

ttttctgtaa ctagctaaac agtaaacaga gagctctccg tgaatgatgt cgaggaagag 60

gaagaagaag aagcgtggag cacgctgctg ctacctggtc gcgctctcag cagtgtgaat 120

ttccagaagc atgcttgccg tgccttcttc cgggtgcacc ggaggccggc atgtgagcag 180

gggtgcttca gtgatgcaga agaaaaaagg caagtcttat tggcaaggga aggctacgcc 240

tttcttccag gtctcccctct ctccatctaa atccgtgttt ggaggagggg gctacggtta 300

gtttacccac cggtttaccg tgtccttgtg agttgtggtc attatcatgc actcgtcagt 360

tgcttgtcat gtatggtgtc cttgaatttt cagctacata atggtcggtt gggtcagtga 420

atgtgagtgt gttcatgtga gtcaattagc tacaagaagt gtgatg 466

<210> 5007
<211> 573
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048a03b1

<400> 5007

tcttccagag gtgcagtgga gaatggcacc gccgcagagc cgaaccgcat cgttgactgc 60

cggtcatacc ctctataccg gttcgttcgc aaggagctgg gaacggtgta cttgaccgga 120

gagaagacac ggtcccccgg ggaggaggtg gacaaggtgt ttgttgctat gaaccagggt 180

aagcacatcg acgcgctgtt ggagtgcctc aaggagtgga acggcgagcc cctgcctctc 240

tgctaatcag ggagatgaag agaagatgct gtgcttcagg attctgaagg ctcccgttgt 300

tctgaactga taatgctact gttgtttgat ttcgtccttt ctctgttttt ccactcttct 360

aaaacgttgg tgcatgcaac gttctttcgg agctagaggc cattgccaaa gattgcactc 420

tgcaatactt gtagcgcaac aacttgagct tgtgccaatg taagcgaaag ggcacaaatt 480

ttcatgtaaa atgtgatgtt ctgctactga atcccaacgt tagacttact gatgtcatac 540

agcacatttt ctggttcaaa aaaaaaataa aaa 573

<210> 5008
<211> 190
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048a08b1

<400> 5008

cacatatcca tctaaaccac aatgggcaag gccacgatga acatcaagcg gcagcgttcc 60

actagtgtca ccactgctgc cctagcgtcc gtgctgatgc tgctcctggc ggcggccggc 120

ggcgtagccg cacaaggaag aggaggaggc tacggtggcg gcggaggagg atatggtggt 180

ggtggcggtg 190

<210> 5009
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048a11b1

<400> 5009

ttctgttcgc ggacgcgtgg gcggacgcgt gggcggacgc gtgggcggac gcgtgggcgg 60

acgcgtgggc ggacgcgtgg gccgcggccc caagggcacc ggcgagtacg agtgcatcga 120

cctctacgcc gtcggcgggg gccgcaaggc cagcgacatg tacaactcga cggccgagga 180

cgtgctgtac gtgctcaagg agagcagcga cgacgaccgg cacgactggt actcgctggg 240

ccggtttgac gccgccgtca acaagtggac gccgatcgac gaggagctgg agctcggcgt 300

ctggctgcgg tacgactggg gcaagtacta cgcgttcaag tccttctacg accccgtgaa 360

gaagcggcgc gtcgtgtggg cgtacgttgg cgagaccgac tcggggcgcg ccgacattac 420

tcaggggt 428

<210> 5010
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048b03b1

<400> 5010

tttcttccac gcgtacgcag ggactcgcag cctaacaggc aatcaattgg gcagggaaac 60

ggaagcttgc atcaaggagc ttgtcaaggg attaggcatg aaaagtggat ttgtattttt 120

atttacttgt ttggtttatg atgaaaaaaa aaaaaaaaaa tagaaaaaaa aaaaaaaaaa 180

aaaaaacata atgaacaaaa aaaacatata aataaattta aaaaaaacaa aaaaagaaat 240

aggggggcgcc ccttttttaga ggacccaaac taacttcccc tcgcatgcac caacttagtt 300

tttttatagg gcccccaaaa caaaatgaac gggccggctt ttaacatccc caggtctgga 360

aaaaccctgg tgatacccaa ttaatacgct tggaaaataa ctcccctt 407

<210> 5011
<211> 479
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c02b1

<400> 5011

tcttgcagct gcaattgcct atggtcttga caagaaggct accagtgtcg gtgagaagaa 60

tgtgcttatc tttgaccttg gtggtggcac ttttgatgtc tccctcctta ccattgagga 120

gggtattttt gaggtgaagg ccacggctgg tgacactcat cttggtgggg aggactttga 180

caaccgtatg gtgaaccact ttgtccaaga gttcaagagg aagcacaaga aggatatcag 240

tggaaacccc aggtctttga gaaggctcag gacttcttgt gagagggcga agaggaccct 300

ttcttccact gcccaaacca ccattgagat cgattcactc tttgagggag ttgatttcta 360

ttccaccatc accagggcca ggtttgagga gctcaacatg gacctcttca ggaagtgcat 420

ggagccagtg gagaagtgcc tgagggatgc caagatggac aagagcacta tccatgatg 479

<210> 5012
<211> 492
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c06b1

<400> 5012

tgtctcttcg gatttcgccg ccgccgcagc cgcagcagct cgccgcccac gcctcctacc 60

cgtcgacgag atgacgaagc gcaccaagaa ggctggaatt gtcggcaaat atggtacccg 120

ttatggtgcc agtttgcgta agcagatcaa gaagatggag gtgtctcagc actccaagta 180

cttctgtgag ttctgtggga agtttgctgt gaagaggaaa gcagttggaa tttggggatg 240

caaggactgt gggaaggtga aggctggcgg tgcttacacc atgaacactg ccagtgcggt 300

cactgtcagg agcactatcc gtcgcttgag ggagcagact gaagcataag ttgctactag 360

tgttttgtcc tagtgaatca tctgggattt tgcagtttag acgatacttt ggattcagtt 420

ctgttggctg gttagtcaag gattatcttt gtacttggtg cgatgatgtt ctgttatgtt 480

attctctcac cc 492

<210> 5013
<211> 512
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c08b1

<400> 5013

ttctttcgcc cacgcgtccg cccacgcgtc cgctttagtg aatgtgctaa tggagtcaaa 60

gggtggcaaa aagtctagca gtagtagttc cctgatgtac gaagcacccc tcggctacag 120

cattgaagac gttcgacctg ctggaggcgc caagaagttc tctgctgcat acccgaactg 180

cgcgaagaag ccatcctgat atcgtttttg gcatcccctt ctcgtagttt aggatttta 240

tgcaatttta ttctgactct tttctcccac caatctctct ggcttgctgc ttcacgataa 300

tcgaccagtt ctctagtctt tctccctctg ttcctctctg ctctgctctc tgactcgaac 360

tgcaacaatg gctgccccga cctctgcgat cgggtttgag ggctacgaga agcgcctcga 420

gatcaccttt tccgaggcat caatctttgc cgaccctcat ggtcgtggcc tgcgcgccct 480

ttccagggcc cagattgact ttgttcttga tc 512

<210> 5014
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c09b1

<400> 5014

ttcgttcggc acacaagaag ctcatagcca ttcaaagcct ctccatctcc gaagctccaa 60

cccaacctcg aagatgtctt gctgcggagg aaactgcggc tgcggcaccg cctgcaagtg 120

cggcaacggc tgcggcggct gcaacatgta ccccgaggtt gaggccgccg gcgccaccct 180

cctcgtctcc gccaccgcca cccacaaggc gagctccggc gggatggaga tggcggccga 240

gaacggcggc tgcggctgca cccagtgcaa gtgcggcacc agctgcggct gctcctgctg 300

cagctgctag atccatcatc gatcatgcat gcaccgtgcc gtgcgtgcat catcgatccg 360

atcgatctac tactaccata ccatgtaacc gcaacctgat cgagggcctt tatgtacgca 420

cctgacctgc atcagcagtc aggtgccatg ccatgattgt aaacaggccc ccctaaaata 480

aacctccctt gataact 497

<210> 5015
<211> 57
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c11b1

<400> 5015

ttcgtttcgc ccacgcgtcc gcccacgcgt ccgcccacgc gtccgtctag atcgcga 57

<210> 5016
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c12b1

<400> 5016

ttctttcggt tcccgttctc ctctcccccc gtcgcctcca tagcagcagc agctccagct 60

cgagcaagaa agaactagtt tgatctgtga aaatgttggc catcttccag aagcaggtgg 120

cgcacgcgcc gcaggagctc aacagcccgc gcggcagcac cgccaagccc aagaacccgg 180

acgagatcct ccgcgacttc cacgccgtcc acccctccga cgccttctcc acctccttcg 240

gcggcggcgc cgccctcgcc tgcgtcgccg cgcagccccg caacctcgcc gacggcgggt 300

accagaggat gttctgcggg ctggacgaca tctactgcgt cttcatgggg acgctggaca 360

acctgagcgc gctgatgcgg cagtacggtc ctacgggccg cttcaccaac gaggcgctgc 420

tggtgatcga ggactaccgc accctgcgcg accggggcct ctaccctgct gaccaggtgg 480

tgaagga 487

<210> 5017
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048d03b1

<400> 5017

tcttggacgc gtgggcggac gcgtgggctt tcagcacgtc agcagtccac tcctttcgac 60

atcttgagga gatttctctg catcgcgaag tgggcgatga aacaaaaaat aagtggaaag 120

aagcagcaaa gaatcaccca actcgtcgtc ccaagatctt gttcctctag acaccatcaa 180

cacgtccagg cagtacaggc tgtgacttgc taatggcaca gcattctcat atgctgctta 240

ttggttgatg accattcatc aacatgattt agtcctcttt gctctcgtgt cggtttggtg 300

gcttccccgt tgttcgtact tttatgttgt gtcaccacta ggatttattt acttgtaaca 360

gacctaagtt aatgacctat taagctgagc aaacgatttc ctttgcaag 409

<210> 5018
<211> 274
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048d04b1

<400> 5018

tttcttttga cgcctgggcg gacgcgtggg gtgtgagccc tttgtcagtt cacacctttc 60

gacctgttga ggagacttgt tagcattgcg atggggcgcg tgaaacaaag attgactggt 120

aaggagcacg aaagattcac ccagcgcggc ggacgaagag ctagatgatc tggacaccat 180

cgacacgtgg aggcacgaca ggctgcgact tgcatatgga ccaggactct catatgcctg 240

gtattggctg aggaccattc atcaacatga gtta 274

<210> 5019
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048d11b1

<400> 5019

ttcgttcgcg agcttgtgca tgtcagacag ctcaagagag aatccctgat aggaaatgtc 60

ttgttgcttg tgaaattgta agatctgcac tactgctcat tgtggatcat gaacgatgtg 120

gcttcacaac agctcctgcg tcagtttcgc actttttttt cgcgaataaa tgagatttta 180

ttgcttaaaa aaaaaaaaaa attaaaataa ataaaaa 217

<210> 5020
<211> 472
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048e01b1

<400> 5020

tctgtcacga cagatttctg agctgggcat ttaccctgct gttgatccct tggactcgac 60

atcaagaatg ctttctcccc acgttctggg tgtggatcac tacaacactg cccgtggtgt 120

ccagaaggtt cttcagaact acaagaatct tcaggatatc attgccattt tgggtatgga 180

tgagctcagt gaagatgata agatgacggt tgctcgtgca aggaagatcc agaagttcct 240

gagccagcct ttccatgttg ccgaagtttt cactggtgct ccagggaagt atgtggacct 300

aaaggagggt gtccaaagtt tccagggtgt tttggacggc aagtacgacg acatctcgga 360

gcacgcgttc tacatggttg gaggcatcga cgaagtcatc gccaaggcag agaagatcgc 420

cagcgagaat gcctgatgac gaggtgttac caccgctctg tacaagttaa at 472

<210> 5021
<211> 240
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048e03b1

<400> 5021

tgtccttcca cgcgtccgtg cggctgtttt tattgcaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaatataaa taaaaaaaaa aaaaaaaaaa aataaaaaca aaaaaaaaaa 180

aaaacaataa aaaaaggggc gccccttttct atataacaaa attacccccc ccctatataa 240

<210> 5022
<211> 502
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316048e05b1

<400> 5022

tcttgctgga gtcgtcgccg tcgaggtcac cggcgggcct gaggttccct tccacccggg 60

gagacaggac aagcccgagc ctcctccaga aggccgtctt cctgatgcca cccaaggctc 120

tgaccacctc aggcaggtgt tttccactca gatgggtttg agtgaccagg acattgttgc 180

tctttctggt ggtcacaccc tgggaagatg ccacaaggag agatccggct ttgagggagc 240

atggaccgcc aatcctttga tcttcgacaa ctcttacttc actgagctcc tgagtcgaga 300

gaaggaaggc cttcttcagt tgccgaccga caagaccctt ctgaccgacc cggccttccg 360

cccactagtg gacaaatatg ctgcggatga ggatgcgttc tttgctgact acgctgaggc 420

acacctcaag ctctccgaat ggngatttgg cgaggcgggc tgctgctgat tcaagctcgg 480

cgcctgaagg tcggtggtaa tg 502

<210> 5023
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048e09b1

<400> 5023

ttcgttcgaa gtcatatgcc tttgctgatg atggaacaac cacaataaat gccacttcca 60

ttaagtggaa ggagggaatg gaaattaatg ggaatgccat taagaagaaa ggaagcaagc 120

gcccattggt tgaagaaagt ttcttcacct ggttcactga tacagagcac aagagccttg 180

ctgacggggt gcaagatgag gtggcagaga tcatcaaaga agatttgtgg ccgaacccat 240

tgaaatattt caacaatgag gttgaagagt ttgaaggaga tgactaggat gaagagggat 300

ctgatgggga ggatgctgag gaggatgagg 330

<210> 5024

<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048e11b1

<400> 5024

ttcgttcgga ttccgatcgg aatcgcaact agctccgccg cttgattagc cggcagcccc 60

gtccccatgg cgtccaagcg gatcctcaag gagctcaagg acctgcagag ggatccgccc 120

acctcctgca gcgccggccc tgtggcggaa gatatgttcc actggcaagc gacgatcatg 180

ggtccatcgg aaagcccata tgctggtggt gtatttttgg ttactattca cttcccccca 240

gactacccat tcaagccacc caaggttgca tttaaaacaa aggtttttca cccaaatatc 300

aacagcaatg ggagcatctg tcttgatatc ttgaaggagc aatggagccc tgcattgaca 360

gtttcaaagg tgcttctttt aatattgttt ctactaacgg acccaaaccc cgaccacccg 420

ttggttccgg agat 434

<210> 5025
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048e12b1

<400> 5025

ttcgttcgaa aaagcatcgt ctcgtctcgt ctcgtcgagg aatcaacagc catgggcggc 60

ggcaacgcgc agaagtccaa gatggcgagg gagaggaacc tcgagaagct gaagggcggc 120

atggggagcc agctcgaggc caacaagaag gccatgaaca tccagtgcaa gatatgcatg 180

cagactttca tctgcaccac ctctgaagca aagtgcaagg agcatgccga ggcaaagcat 240

ccgaagagcg agctcgtcca gtgcttccct cacctcaagc agtgatatct gcccaatcag 300

acagagagag agattaaaga gagagagaga gagaagctgt cataatccac ctactattat 360

catgttccgc aatgactgat tgttgaccta aagcttggg 399

<210> 5026
<211> 514
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048f03b1

<400> 5026

tcgtacgtgt acacaaacgg gactgtgtgt gatctcacag atataccacg gtacacagag 60

gttaggtttg tttgttccga gcccactgta ctgatcagtt cgataaagga gatatcttcc 120

tgcaagtatg ttttaactgt ccaaagccca atgctctgca agaacccgtt gtttcagcag 180

gaaaagcgca ccttcttcat ccactgcaac gagtcgcttg cggaagcaga agctgaggcc 240

gtcgaggacg acgactctct cccaaaagaa gctcagatgt ccatcgttcc aaaccccgac 300

gaattgcata actacgcagc ttacgctacc tgattgcccg ccaatcacgg tgccctcagc 360

tgatgaaaga tgccgttatt ttggaagtac aacagcaagt tggcaacata gtataactat 420

cccctggctt gttctgtctg acgccaacta gtggttacag ggtactcttt gagcagatat 480

ccattactga aacagcttga gattacctta gagg 514

<210> 5027
<211> 515
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048f12b1

<400> 5027

tttcgagcaa agctcgagca tagcaacagc actaaagcta actagagctt ccagcaatgg 60

cgacctcccc ggtgctcttc ctcctcctcg ctgttttcgc cgtcggtgcc agcgcggcca 120

ccttcaacat caagaacaac tgtggcttca caatttggcc ggcgggcatc ccggtgggtg 180

ggggcttcgc gctgggctca gggcagacgt ccagcatcaa cgtgcccgcg ggcacccaag 240

ccgggaggat atgggcccgc accgggtgct ccttcaatgg cggttgtggg agctgccaga 300

ccggcgactg cggcggccag ctattctgct ccctctccgg gcggtcacca gcaacgctgg 360

ccgagtacac catcggcggc ggcagcaccc aggacttcta cgacatcttg gtgatcgacg 420

gtttaaacct tgccatggac ttttcgtgca gtaccggcga cgcgctccag tgcaaggact 480

cctagttgct cgcgccgtaa gcctaccaac acccc 515

<210> 5028
<211> 386
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048g01b1

<400> 5028

tcttttcaac gtccccggct ggtcctggcg tgccaacttc atgaccgacg acgacctccg 60

ctccttggtc aaagcccagc tgaactacat tctcggggac aacccgatga agatgagcta 120

cgtggtgggg tacggtatga agtacccgaa gcggctgcac caccgcgggg cgtccacgcc 180

caagaacggg atcaagtact cgtgcaccgg cggcaacaag tggcgcgact ccaagaaggc 240

cgaccctcac gtgctcgtcg gcgccatggt cggcggtccg gacaagaacg acaagttcaa 300

ggacgcgagg atcagctacg cgcagaacga gcccacgctg gtcggcaacg ccgggctcgt 360

cgccgcgctc gtcgccatca ccaaca 386

<210> 5029
<211> 205
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048g02b1

<400> 5029

tgtctttcct gtctattcct agcgtgctcg ggttattgct tgtgtgggta ctttgaattc 60

ttttccgtgt acgttgacga tgcgaatttc tctgtggttt ccatggaccg tgtgaagaga 120

tttcagcttc tttatatgta ctatgtatat gcactagtat catgtatggg agtgtatgca 180

tacagtactt attgttgaag tttat 205

<210> 5030
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048g09b1

<400> 5030

ttcgttcggc cacgcgtgcg gaccggctgt gtgcttcctc cttgggttac tcggcctccc 60

gaacgagcag tagaagcacc tgcatgggca ccgctagcac taaaggaatg gcggtcgaga 120

cgttcctctt cacgttcgag tgtgtgagat gagggccata cacgaaagct ctgtgaccag 180

gcttccgacg ccggctggga tgcctgcttg gcgcaagatg ccgacagcaa ggatggctgc 240

acgactgcta ccaagaccaa catggtcatg ggcttgggcg agatcaccac taaggccacc 300

gactactacg agaagaacat gcgcgaaacc tggcgaaaca ttggctttat ctatgatgat 360

ggtgggctcg acacccaccg ttgcaggtgc gtcgtacatc gagcagcagt ccccctg 416

<210> 5031
<211> 272
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048g11b1

<400> 5031

tctttcgccc acgcgtccga gatcgcgaat catgcgcccg gtcggtagat ttctttgatc 60

cgtcttgttt gttcaccttg ctgtatagaa agatgagaga tcagtgatcg gaaccgatgc 120

attctgagtt agagagtatc tgttcatctg cacggggtgc aaatatcagt ttctgtacca 180

ccatggagat tactatctga aatggagtct gcttttctca acggaaacca aaagactaac 240

aggtactcca atatgtataa ctttaatata tg 272

<210> 5032
<211> 55
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048h01b1

<400> 5032

tcgtctatgc gtccgccgac gggtccggag cgacagtaat gagatcgacg gcagc 55

<210> 5033
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048h02b1

<400> 5033

tctttcacgc gtccgcccac gcgtccgggc cgccagtagt gcggtcggcg ggagcgccat 60

ggcgtgcctc agcgcgtgcg aggcgttcgg gtccctccag tactgctgca gcggcgcgta 120

cgggagcccc agcacgtgcc ggcgcggggc gtactcacag ttcttcaaga gcgcgtgccc 180

gtgcgcctac agctacgcgt acgacgactc cacctgcacc ttcacctgcg ccgacggcac 240

caactacgcc atcaccttct gcccgagcac caccagtggg aagtacaccg acgagaaccc 300

gcaggctgcc ggcgtgccgc ccgcgaacgg cacgatggtg taccgcggcg gcgagcagtt 360

ctcgacgagc ggcggcgcct ccactgccgc ccatgcgtcg cagctgctcc tcgcggcggc 420

cgtcgccgtc gcgctgctcc tgtaagggca cgccggccat acgtgcaatg ttggcaacga 480

catac 485

<210> 5034
<211> 134
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048h03b1

<400> 5034

tgatggctaa tcaccgatag gccctgcccg tcgcgatgac aacaggtgcc caccctggat 60

ggcgattggg acgcgccctg atgacgcgca ttctgcgctt gggtcggggc ggttctcaca 120

acgtgaccct gcac 134

<210> 5035
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048h07b1

<400> 5035

ggctcgatgg gtggatcaaa acaagcgtgg accattacgc agtcgtgagc catgcccttg 60

gtcaggatat ttgctaacac tgccagttaa caagtgctac agtcacggtc gtcgatgaac 120

tatgacagta cgtggtagct tccaggattt actagacaca gaaaagcaca tgaatgctct 180

gtaagcgtca acaagaccct gctgtcggat ttgaggctgc gatggattaa cgtgtgcttt 240

ttgacacact cgtattggag gctctatgag gcacttggcc atatttacat atgagtactg 300

atgtattgag aacatgcaaa ctatgaggaa tttctgcatg ctgtattaca gttagcagca 360

tggtctgatt cgctg 375

<210> 5036
<211> 395
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316056a02b1

<400> 5036

ttgttcagtc ggtgcttcca cacagacagc gatggagccg tacatggcgc cgcggaggct 60

gtggcacgtg gtgcgcgccg tgctgttcat gctccgcaag ggcatgtaca agcggaagct 120

gaccatggac ctgcagctcc tgctccaccg cggcaagatc gtcggcaagg ccctcagcag 180

gctcatgagc gcccacagcc accacgacca ggccgcctcc aggtcggtcg cggaggcacc 240

tccgccggcg tacgttgtct cgccgcaccc ttgaccccgc gctcgccgtc tatggtccgc 300

gcggcgccgg tcgacaggtg gagttcagct gcagcaacac cccgtcctac ccgaccgtnc 360

aactcattct cgccaagcgc cgtcgtgcga acaac 395

<210> 5037
<211> 75
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a03b1

<400> 5037

tttttgacgc gtgggcggac gcgtgggcgg acgcgtgggc ggacgcgtgg gcggacgcgt 60

gggcggacgc ctggg 75

<210> 5038
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a05b1

<400> 5038

ttgttgagcg ctagctagac ggaaaccatc tctcccctgc tcctgcttcc gtctcaccaa 60

gtcagccacg atggccgtcg tcgccgacag gtcgatgctc cggtcgtacg cttctctcct 120

ccgcgctgct ccggcgaggg cctcttcctc tgcggcgcgg ccgtcccttc gccgcgcgct 180

gggcgcgccc cctcgtctcc tcaggtagcc cgtcgaggcg agcttctgcg tggagtcgct 240

gctggcactg cacagcgcca ccgcagcggc gcggatgaca tctatgctgg ccgtgcctgg 300

ccgaggcctc gggtggctca cggaagctga aattgatggg gtatgatgct gacctgccaa 360

cggagccagg agattactag tctttcagga tgagctgaca cagaaaggaa gcatgcttt 419

<210> 5039
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a06b1

<400> 5039

ttcgttacgc gtccgtaccc aaccaaaagg atctatggtc atcatcctca ccttattaaa 60

ccaaagcccg tgcacctgat cctccagtgc tgtccgcgat cacagcgtcc gtgatagtgc 120

tgcgatccgc tgatccttgg gctggtagct cggggagcag gcgttgcgtt cgtttcttgc 180

tgggagagtg ggtcgagtga tcgggcgggc gggtcgcatg agcccggtga gcggaaagct 240

gcggtggctg tagagggcgc acgcgcgggt cgttggtcgc tcgcgggact tctacgtgcg 300

gagcatcact gggtgcgcgc gctacgttca cgccgacgcg gaatgaggcg cctaccggt 360

gc 362

<210> 5040
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a07b1

<400> 5040

ttggttttcg gttggtatct tctgtttacc aaagcatgct atcattcctc tgcacaacca 60

tcccgggatg accgtcttca gcaagatgct cttcggctcc atgcacctca agtcgtatga 120

ctgggctagg agtatctcgg aggctggcac tactgcgctc accacctcag acggggctcg 180

tctagcaaag atcaacacaa acaatgttgt tgacgcctca gctgatacca tagttctgta 240

cccggagaac ggaggcaacc tgcactgctt cacggcgctg acccccttgcg ctgtttttcga 300

cgtcatggga ccccccttaca gcagcgctgc tggcagggac tgcgcgtact acagtgagac 360

caccttctca aacacagctg gtgtggatga cgtgcggtac tactggctca aggagattcc 420

caataccttg cggatgaagg gcgtaacgat 450

<210> 5041
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a09b1

<400> 5041

ttgcccacgc gtccggggga gaataatgtg gtgaagagga agcgtgaaca agatactgaa 60

gagactcctc gctcaaggaa ggacaaaggt ctggatggaa gtctagttgg ttcaaggatc 120

aaagtatggt ggccagacga tgagatgttt tacaagggtg ttgttgactc atttgatacc 180

cattccaaaa ggcacaaggt tgcatatgat gatggagatg tagaggtact gctgcttagg 240

gatgaaaaat gggatttcat cagtgaggaa gaaggcaaaa ctcctgatgt accatctgag 300

cgccgtggtc gaaaagggag aggaatcacg ctgctgccag tgaaggaaga aaaaattgaa 360

acacctaata gtgacggagt ggagcttgca aagaaaaggg gctcgccgaa aggttggcgc 420

cccacaatgg tggcacaccg tgtacaactc ccagtaaatc aaaggggaaa actgctgtaa 480

ggatg 485

<210> 5042
<211> 291
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a10b1

<400> 5042

ttggtggcca tcaccatccc caagcgctgc aacatggccg accgccctgt cggctacaag 60

tgcggagatt acacgctgcc ttgatggccc agctctggtg ctgatgaaga tgaatgctgt 120

ggaagatatg gtcgtgtggg aataagcgag tggtgcatgt accacttaag tggggcacta 180

gtgactgcat ggtgcctaca tgtgatgtgt gcttgtggga atatttctat aagcatgtaa 240

tgtttcgtct gtgttaacgt gaacacacgt gtccgtgtga tttctattgt c 291

<210> 5043
<211> 256
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a11b1

<400> 5043

aggactcgtg gggccgagac caggtgtagg gttccccaac tcttgttttc cacgcaagcc 60

agcgagagcc taccaccagt acagatggag gctgcagtgc cagcggacgc gaaggcagcg 120

gctgccacga gggaccttct ctcggacgac aaccagttcg tggagttcga gctcggcgag 180

taatgcgatc acacggaaga tcgcgacgaa gctggccagc aaggggagga tgactgggat 240

tatgacaacg tcaacg 256

<210> 5044
<211> 443
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316056a12b1

<400> 5044

tcgcggacgc gtggggccgc gcccaggtct agggttcccc ctttcttctt ctccacgcga 60

atcagctaga tactagcacc agcatcgatg gcggtggcag cgccggcgga cgcgaaggcg 120

gtggccgcca atatggacct cctcgaggac gacgacgagt tcgaggagtt cgagatcgac 180

caagaatggg atgacaagga agatggcaac gaagctgtcc agcaatggga ggatgactgg 240

gatgatgacg acgtgaacga tgatttctca ctgcagctga ggaaagagct ggagggaggc 300

aacactcaga agagctgaac tatttcccat ccatatcaaa gctgtcgtaa actttatctt 360

cgatcaggca ctgtgtggcc gttgctctct ggacctgcga tactttccta gncatatcaa 420

gctctgatac ttatcttcgg ttc 443

<210> 5045
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b01b1

<400> 5045

ttgttgaaca tgtggcagga gcccttgaac cccggcaact ggaaggaaga gcactttgtg 60

ctaaccagct tagcgatgtg gggcgctatt atatatggtg gattgaaggc gtctgccggg 120

aaaaatgaag tgaaaaccga ggcggggtca gtgccagcag cagcaccggc acattcaact 180

tcatgagagc tttatttttct taccacaatc ggttttaagt atgttgttga cgataaatcg 240

agaccaagtt ggctggcaag gttaaggagc tgcgctgccc agccaccatg aataatctga 300

acgtggtgta acttttgatg c 321

<210> 5046
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b02b1

<400> 5046

ttgttgaata cgagcccaga ccaaaaccaa gaagacacac tgtaggatgc atcagtctgt 60

cctctaactg attcgaccaa ccaagactat gatgagctac ggagaagatg agcaagctgt 120

ggaccatgct gagccacctg cacaccctcg aagggcctgg cgtgatgctg ctgttcccgc 180

tgtatgcgtg ggtgcttgcg atggcgagcc cgtcgaagct ggacgactag cagaggctgg 240

cctactggat cctctactcc tgtgtcaggc ttgtgctgat ggtcctcgag tacttcatct 300

actggatacc gacctggtac gcgctgaaga tactgatcgt ggcgtggctg gcgactgtca 360

acttaaggga gcggtcttat atacgacagg tt 392

<210> 5047
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b03b1

<400> 5047

tttgttcctc ctccccgttg agagtcccct tgggttcacc ggctactatc tatttctgct 60

ccggcggcgc cgctgcttgg agtggggatg agaggggcgc ttgggctgat catgtctata 120

gtagtagtag gtgtaggtgt gccgttttag tggtgatagg acttgtgccg tggattggcg 180

tcatgccgtg ggggagttgg tcaccggagc ttgcaagcag cttctgctga tcaccgttgg 240

agccttctgc tctgcctcca tggaggaggc ctaaggaagg agccgcatct ggcgaatccc 300

cccataataa gatagctggg ccactggaac aaacctggtg gacatactat acttcctacc 360

<210> 5048
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b04b1

<400> 5048

ttgattctat taacattaag gggaaaaaaa ggagaaaaaa aaaaaaaaat aaaaacaaaa 60

aaaaaaaaaa aaatgaaaaa aatgaggatg agtcg 95

<210> 5049
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b07b1

<400> 5049

tcgcgtagct ctcttgtgaa ggatactcct tttcacggca aacgttgtct gcagtttcca 60

gccgaagagg atactgaggg gttcgacaat ggaacacaga gaatgatatg gttgagtcga 120

cctccatagg atcgccacca ataagctcat gcaatcctta tcagtgatga tgcaagtttt 180

ggacaaggat cttcattcat tcgaagcact gatgatgatt taagttagat gtgtgtcaga 240

cgtgctttaa aaccatcatg cttattctgc gtgtaatgtt gtttaatgca tattgatcct 300

tctagttgtg tatctatgcc atgttagcat cggatatgtc agtaatatga tttaaaacca 360

tcgtacttat tctaatatgc atattgatcc ttcagttcag gccagtaaaa atg 413

<210> 5050
<211> 239
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316056b08b1

<400> 5050

ttggcgcggt gctgggggcc agctaccacg tggtggtgat cagggtcatc gcttttaaga 60

gccgtgactg gtccttccag gagctgcgaa tggaatctga tcgctgttca tcgtcggtcg 120

atcgattatg tggtggtgga ggtggctgct gctgcgcgcg tacgtggatc atctgtctgt 180

cgcgcacgct gtaatatttc tncatccgcc gtgcatgatc tatgatacgt gtgtgtgcc 239

<210> 5051
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b11b1

<400> 5051

tttttgcgat ttcgattgga atcggagcca gctccgctgc ctgattagcc ggccggcccc 60

ggccccgtct ccgttcccat ggcgtccaag cggatcctca aggagctcaa ggacctgcag 120

agggatcccc ccacctcctg cagcgccggc cctgtggcag aagatatgtt ccactggcaa 180

gcaacgatca tgggcccatc ggaaagccca tatgctggtg gtgtatttat ggttactatt 240

cacttccccc cagactaccc attcaaacca ccgaaggttg catttaaaac aaaggttttc 300

cacccaaata tcaacagcaa tgggagcata tgccttgata tcttgaagga acaatggagc 360

cctgcattga cagtttcaaa ggtgctcctt tcaatctgct ctctactaac agacccgaac 420

cccgacgacc cgttggttcc ggagattgca cacatgtaca agagtgatcg tgcgaagtat 480

gagtccacag cgaggagc 498

<210> 5052
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c01b1

<400> 5052

tcgttcacgc gtccgaaaaa aaaaaaaaag agagagaaaa tatataagag aaaaaatact 60

agaaataaag gtgaaagaag cacaaaacag catacatctt gcacatggga tggaacgttc 120

ggtctcagct gaagcgtgca ctgagaaaat ataagcaggc catcaaaaaa gggggcggcg 180

cctttcaggg ttccagggtt caccatgtcg ctcggtaagg gaattcattt tttttagggt 240

ggccctgttt atattcacgg gggcgtgttt caaacagctg ggtaccggaa aaccatcgct 300

g 301

<210> 5053
<211> 506
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c04b1

<400> 5053

tcgctcacgc gtccgcgtgc gtgcgtgctc catggtgagg tcgcttccgt ctgtttcgat 60

ggaggggagg aggctgcagg aggaggagca ggagcaggag cagcgggagg tgctgctcat 120

ccacagccag gtgcggagga tcaagcggga ggacgaggag acccggaggc accttctcaa 180

gctgcagctg ctggagacga ggccggccgc cgggcaggag gcctcgccgc cagcctcccg 240

ctcgctgtcg ccgctgcggc gtgccgggag cgccataccg gtcggcgact gggcctagtc 300

acctcgcctg cccggccagg cagcgtatac agtcgtatag atataggaga gcgagcgagc 360

tatatatttg agagccttag tacggtcgat cgatgcctgt ccatgctctc tgcgtgcatg 420

gaaccagagc ttatagctga tcgatctagc tgctctacat gctctgtttc agtcgactat 480

tcttcttctt gttgaaatat accgag 506

<210> 5054
<211> 284
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c06b1

<400> 5054

tgcggtccag gtcgctggtg cgctcttccc gatcacccgc accgtgctca agtcggagtc 60

ggccgtgatc acggacgaga tgaaggagga gagcgtcttc gccaagctcc gtgttgcccg 120

tgccgatgcc cgcatcgtcg gcaagcagaa gaagcgcctt gccgacaagg ccgccgccgt 180

cgaataagcg accgttgcgc tgagccgaag cgagtgtcac taggaacttc taacacacca 240

agctcaatgt ggaacaactg ttgggtttaa aaaacaacgg gtct 284

<210> 5055
<211> 334
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c07b1

<400> 5055

gaaactttgg gcgaccacgg gctatccgcc gcgtgagatg actaggattg acgcagtact 60

gctgatgctg gtggctgacg ctgacgagct cgtgctcgca catgggccgt aactatggac 120

ctagagcacc atggccaagg ctgtggagga cttcatgacg aaagagcaac taatggccct 180

acaccgtttg ctggctcaac aactcaacct ggaaggccgg cacgccggga caaatgacga 240

tggtggctct cacggtggcc aacctcaacg aggtgcttga tcgacacaca ggcctaagct 300

tggcagtgct catgtggtga caacactcct actg 334

<210> 5056
<211> 212
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c08b1

<400> 5056

tcgcgcattc atcagcgcca attctgctga tgtgtaaaga atgatctgtc gttatagtgt 60

gcgttgggag gatattatgt gattgtacaa ttatgatgta agttgtaggc aaagaaacga 120

ccactggatc ttgattcttg ttctgacctg tacttgattt atcgttgtac cggccagtgt 180

atcatggata tagccgccca ttctcacaaa aa 212

<210> 5057
<211> 537
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c09b1

<400> 5057

ttgcccacgc gtccgcggac gcgtgggtct cgcgccgttt ctccctcaca acacaaaccc 60

cgagcgaagc cgtcgacgtg ccgtcgtggt ctccgtggcc atggtcattc ccgagctacg 120

acaagatgcc tagaggcacc gccgtcctct tctacgtcga cttcaaccat cggagcaagc 180

tgggagggcc tcgcgcgtca ccatcgagct catctgcgcc tctgcatcta gacgctcgcc 240

gtcttggatt cggtctcacc ggagcctccc caagcccgct ttgctcatct acaggctcaa 300

catgctggag tccaggagcc agacgccact gtcgacgacg actcctacta cacctgaggt 360

gcctactact acgtgcagcc cgctgatgac gaccaggagt agtttaggag gatcccaggc 420

aggaggcctg cgcctctttc gatctgtacc ccagttggtg ctagccttct taagacaaac 480

ttgtttaact tatgtctgta ctcagatatt ggtgcttccg atgactcgtc tatgatc 537

<210> 5058
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c10b1

<400> 5058

ttgattgtct cgaccggtga gtcacctgaa tgggacgagg cctttgcatg ggctttttgac 60

agccctccca agggccagaa gcttcatatc tcttgcaaaa acaacagcaa attcggaaag 120

aaatcgtttg gcaaggtgac gatccagatc gaccgggtcg tcatgctggg gtcagtcgcc 180

ggagagtaca ccctgctgcc ggagagcaag agtggtccga ataggaacct ggaaatcgag 240

ttccaatggt cgaacaaatg acagcatcta cagaattagg cgcccgtgta agttaaaata 300

tataaagtta agagtggttt tcttgtttca catcctctgc taaatgttac cctgttttgtg 360

catcagtgta aatagccggc agagaaagtc gtttttggt tgttgttgtt gtacttttctt 420

ctgtgagata aaaacagatg agatcagtct gcttttgtac tgattgtaat ggaccgaccg 480

attcattat 489

<210> 5059
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c11b1

<400> 5059

tcgctttctt aacatgtctc tttggggtac atcaatgatt gtcacatatg agctaataaa 60

aagactttct gtgaaacctg agcaatgaac cttctggctt ctgctccgcc tatctggtca 120

tcatttccgt tttggccatc tagtgaattc cttttggtac agggattggc atgtaacact 180

ggttggaaat tcttgatgca agtcccctta taaagtctga catgtttctg tacggaacta 240

ccctgtaaat acctccaagt gcaagggtgt ctcgtttcag atgagagcca gaggattgat 300

ctgggtactg gagcgccttg tagttgttga gcaaaaattt ccctgtaagt gctgaagggc 360

gctcgtttca ggatgagagc cataggctgg atctgggtac tgagcacctt gtagttgttc 420

agc 423

<210> 5060
<211> 339
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d01b1

<400> 5060

tcgcgccacc ggcaaggtga ccaggctcag gaaggagtgc cccaacgccg actgccgcgc 60

cggcaccttc atggccaacc acttcgaccg ccactactgc ggcaagtgcg gcctcaccta 120

cgtctacaac cagaaggctt agaggtggct cgcgtttgct ctgctctttt tacctaccta 180

tcgagaatcg aactcattta gatgtgtccc gtttgtcttt taaactgaaa ccttgagtat 240

catgtttcct gaatatttca tcgcatactg ctgtagtgcg atgcgtgctt aaatttttggt 300

gctccgtatg ctaacgaaaa gactgggaaa accctggcg 339

<210> 5061
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d03b1

<400> 5061

tcgcccacgc gtccgcgtgc gtgcgtgctc catggtgagg tcgattccgt ctgtttcgat 60

ggaggggagg aggctgcagg aggcggagca tgagcaggag cagcgggagg tgctgctcat 120

tcacaggcag gtgcggagga tcatgcagga ggactaggag accaacaggc accttctgaa 180

gctgcagctg atggagacga ggacggccgc cgggcacgag gccttgtcgc cagcctcccg 240

ctcgctgtcg acgctgtagc gtgccggcag cgccataccg gtcggtgact gggcctagat 300

cgctacgctg cccggtcagg cagagtatac agtcgtatag atataggtga gcgagcgagc 360

tatatatctg agagccttag cacggtcgat cgatgctctg ccatgctctc tgcgtgcatg 420

gcaccagagc ttatagttga tcg 443

<210> 5062
<211> 196
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d04b1

<400> 5062

ttgtctcacg cgttcggcga gtggtgcatg taccacttaa gtggggcact agtgactgca 60

tggtgcctac atgtgatgtg tgcttgtggg aatatttcta taagcatgta atgtttcgtc 120

tgtgttaacg tgaacacacg tctccgtgtg atttctattg tcaaaaaaaa aaaaaaaaaa 180

aaatagcatg aggaac 196

<210> 5063
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d05b1

<400> 5063

atgctgctcc tgctggtact gccgctgaag tattggcggg tcccacgcgt cttttgggca 60

ccactggtta tcctgttcgt gtggacccca tggaggagcc agaaccaaac accctgtgag 120

caaccccacg attggataga ctagagcagg ttgtacatgc cgggactgcc aggccacaat 180

ctcatgatgg aggagctgac tgccttggat aaactgagta aacgtctgtc cgtgggtggt 240

gcgcaacatg acgcgtcatt agaatagccc cgtagggaat cgaatttgtc gggcttctag 300

gcgataagcc tttggagggg ttttcttata ggcgacaggg gctaggcact ggccgtgtaa 360

ccaatggcgc ggtctgaggg aacattggcg cctccc 396

<210> 5064
<211> 461
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316056d06b1

<400> 5064

ttgttgacgc gtgggctttg gggaggtggc ggaggaggac gagggcgagg tcgtcgacga 60

cgtcgaccgc cccgccgtcg ttctgaagcc gtccgtccac gccttcgtca ccgacctgcg 120

cgtggtcggc acaaacccac gtggaacgct cttcctggac gacagcgaga ggaacattgc 180

cgtggggaaa gcactcggtc ttcgcacagt cctggttggc aagagggcta ggagcaagga 240

ggcggactac gcgctggaga ccgtcggcgg ccttcggtga gccatcccgg agatctgggg 300

cggtgcggag gacgacggcg agctgcaggc cgaccacaac gtggagaaga acaagagcat 360

gagggccgag ctggactgcg tcatccagcc cacccncatc caggcttgat cgatcgatcg 420

cgtccagatg atctccaatc cagacgctgc ttgtgcatac t 461

<210> 5065
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d07b1

<400> 5065

tcgcccacgc gtccgcttgt cgttgggctc tgggtcctgc tcctgctttc tctcctggcc 60

gtctcctccg gcgaggaatt cgatgtcttc taccttggtc agcaatggcc tgggtccttc 120

tgtgacacga agaaggggtg ctgcttcccg gacaccggct agccggcgac ggacttcggc 180

atccacgggc tgtggcccaa ctacgccaag tgcaagaccc gcggcgagct cgacggcgcc 240

ctggagatgg tgaccaagcg caagaagaag tgctggccgg agaactgcaa cagcgagcgc 300

ctcaagctct gggagatcaa ggacctggtg acggagctgg acgccaactg gccgacgctg 360

gcgtgcaagg gcggcaagag catcgagttc tggacccacg agtgggagaa gcacggcacc 420

tgctccaacc tggaccagca cggatact 448

<210> 5066
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d08b1

<400> 5066

tcggccaccc ctatggtgca aattatggtc tgggaggtga tcgtggtcta aatcatgcgc 60

gagatcggcg ccgaggaagt cgatgctctt gtaccttgac aagatatggc cggggttgtt 120

gttggtcacc atgaaggaca ggtgggactc gcacacgtac aagcagatga cggacttggg 180

ctgcgacggg ctggggatca actacttcaa gggcaagatc cgcggggaga tcgtcgaggc 240

cctgctggtg gtgaccgtgc acaagatgaa cggctacccg gagaactgag cagtgagggc 300

cacatgctat gcgcgagcat ggtcatgatg acggtgtttg acaccaaatg tccatcgcta 360

aa 362

<210> 5067
<211> 180
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d09b1

<400> 5067

tccgctcata cgggggatca taggtaggcc tgcttggttg acagattggt tggcacactg 60

ctcggatcat tacgcgggtt atcataatga ttcagccaca gaacgaaatc atgaaccgaa 120

ttatagccag agacgaagac ctagacggaa tcctagcttg aaacaaaagg acggaccatc 180

<210> 5068
<211> 341
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316056d11b1

<400> 5068

tcgggccgcc ctttttttt ttttttgtg aacccaagtt aggagcgaga tccaaaccacc 60

taattagcaa ctccacgact ggaagtacta gatcatatat atacatgcca aacacgccac 120

ggctcgatct aattattcag caactgacac gattgagaaa actatggatc ggacggacgg 180

caaggcgacc ggcggatgag gcatcatcac cctagccccc taggacttgc tcttgccgga 240

ggcggaggcg gtaggcntcc ggccccggct cccttgctgg cgacgaggtc gtggtcttgg 300

ttcgtgtagc cgtcggcgcc ctcccaggtg aacttgccgt c 341

<210> 5069
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d12b1

<400> 5069

tcgggcacgc cttcgaacaa ttatactgcg aaccgacacg aggagtgagt tccaaaaaca 60

aaattagtaa cgccacgaaa aggatgtgct acatcatgct atatacatgt ccggcacacc 120

agggggtagg ctaactattg aggacccgag accattggca aaactctaag gcccacggcc 180

accgagtcaa cccggagctg aggcatgaga aggatagcca ggtactactt gatattaccg 240

gcagcaaagg cggacgcgcc acacaggggg ccctcgacgg caagaagaac aacgtccttg 300

gccagagata gccaatggga tccgttatgt gaacctgatg atgtggacag tatatatgat 360

gcaagattac tgtgccatgc gtgcgagct 389

<210> 5070
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e03b1

<400> 5070

tcgctcacgt ctgcagcttt gttgttgagg catacaacaa tgtactgttc acccactatc 60

ttgttgagca cactgagcta gatggactgc ttgaaactga ggccatgtat gacaaatgac 120

gccgttgtct tgacattggg ggcccaacat acaccagacc taatgggttc gctcctcagg 180

tcatttgatg cactactggt tccctgtggt ccgatggcgc tctcaatgta aaatagagcg 240

agttgtatac caacctggta cgctaccctt ggatacacta tatgctatac tagtatctgc 300

cagtgatctc atctgacaag gcttacgatg agcagatatg tgtcgatgtg atcaccaaca 360

acgacttcag cccttgctcc atgatggtca agagtgacac ttgccaccgc atgcacatgg 420

cctgctgcct catgta 436

<210> 5071
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e07b1

<400> 5071

tgggggatgc tgccccgcct ggaggtactg ttgacgaatt tcctgggtcg ccccacgttt 60

tttgatgaat agcggcgaca gtcgtcacgt ggccagtatt catcaatagc cagcaatcat 120

gctgatggat aggagggatg aggtttgctc cccacaagag tcgttatcat cgtactttgg 180

gaagatgcct attttgccga ggatgtcatg aagcacgatg aacttgatgt tcttcatcgt 240

tctcttgggc aacatctccg ccatgatggc ggcccggggg ccagaaacga acaaccggtg 300

catgctgggt cgcaccgtca ggagcatctt gatggacaga ctgatctaga tcgttaattg 360

ccgtttacac acaatgggct gattgagaaa accgt 395

<210> 5072
<211> 235
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e08b1

<400> 5072

tcgataacaa aaaaaaaaaa aaaaaggaga gcacataata aaagcaataa agacacagaa 60

tgcagagaga caagaacaga tgaggttact agcgaacaag aggcgtcatc atgcgggctc 120

cggggtgact actttttttgc tgaggagccc acgccgtacg ctgacctgat tgccctgcgg 180

cgctttcttg gttaacaagt cggctatgta tgccatgccg tccgggacga tcgaa 235

<210> 5073
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e09b1

<400> 5073

tgttcgggcg ctcgggctgg cgcagatggt gggggggctg gccggcggcc tccactacta 60

cgccgcggtg ttgcaccgtg ccggcgccgg cgaggacccg tgcgcgaact ggcgcgtcta 120

cgccgtgtac gccgcgtgct gagtcatcat ctgcgcgtgc gcgcgagctg agaagaggaa 180

gaaggtctac ctcgccggct gccgaggagt ggaagaagag ctgagggatg aaagcttttt 240

ttaggggctt atgtgcaaac attaaatata gtgaaagcca aagggcttgg ctataagatg 300

ggaggagggg gtaattagaa gatcatggag tacaagaaga gaaaggaaaa ctattctt 358

<210> 5074
<211> 92
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e10b1

<400> 5074

tcgcccacgc gtccgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

gaaaaaaaaa aaaaaaaaaa aaaaaaaaca aa 92

<210> 5075
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f04b1

<400> 5075

ttgtttatac gtccgggtga ccggaggcgg ggtgggtgcg gttacttcga ctcgcccaca 60

agatcgggcc catcggcctt tcctccaaga agatcaggga ggacatcgtc aaggagacgg 120

acaaggactg gaagggcctc cgcgtcaccg cacaagctga ccgtacagaa ccgtgaggcc 180

aaggtgtccg tcgtcccttc agtcgcggtg ctcgtcatca gagtgcctca aggagcccgc 240

tagggacagg aagaaggtga agaacatcaa gcacaacggc aacatcagcc tggacgacac 300

tcatcgagat cagcaagatc atgaagtcca ggtccatggg caacgagatg gccgggactg 360

tcaaggaga 369

<210> 5076
<211> 291
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f05b1

<400> 5076

tcgttaagat cgacaggtga tccggtaggg ggctggatgc tctatccaag ttcacgtaca 60

acggtgacgg tcgtctcggc tagatgatag cgaccacgac catggttgtg gtgaccttcg 120

gcacccaccg tcctgttggg caataccctg tgcgtgacaa gagacaaacg gttgctgttc 180

gtgccattaa gggcctgtag aagaatgacc acaccggcgc caaggatacc aaggctgatc 240

tgatgaacaa attggctggc tattgagccg catgttgcag tggaccatca t 291

<210> 5077
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f06b1

<400> 5077

gtgctttgcc tacatcgtga cgctgggcat gggggggggca tacatggtcg ggctcaacag 60

gtggcggacg gccatgacca ccgacatcgc gctcgtcgat ggttactgtg gccacgccga 120

gccatgcttc gttagggcgt tctactgggt gctagattag acatacggca tgtgcatgac 180

ggagagtggg ttcaacaaga cggggctgcc gggcgccatc tggtactaaa ggtcgcccta 240

ctacaaggtg ggcagcgtac tgagcataat ggtgctctcc gccatcatcg ctcttgtcgc 300

caacctctcc ttcaacgtgc cagcagtgct actgatgggg aacgaggtgg ggaccgctgt 360

ggctctgatc 370

<210> 5078
<211> 294
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f08b1

<400> 5078

ttgtttgtga ctactggcga accgtcacag gagaacatta ttggccaagc aggacggcgt 60

gggtcgagag gaagcgctga tggatgaggc tgcgatcaac gtaggtaatc atcgtggtga 120

aagctcatcc ttgttttact gcgccagtct ggagggatga cgaggtgttt gggctcctga 180

tatgtctggg ttgaactgat gctttgggga tgcccaccct cgtaacatga agaacattat 240

ctgcttttct tgaaggttgg atattcggtt tatgaagaca tatcgtctat tctt 294

<210> 5079
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f10b1

<400> 5079

tcggctgcgg gaggtgctgc agttctcgaa cgcttgcggc gccatctgca ccaccaagaa 60

gggagccatc ccggcgctga ccaccaccgg caccgacctg gagctcatca gcaagggcag 120

taactagaga ctcattgtgt cgcgccatcg gggttgaatc ttaggagttt tagctgcact 180

tttattatta ttattaggga tgaattgagt ttagttcgtg agtcaagtgt gtgtgacctc 240

gtgggcgctt aataaaaagc aagcatgtgt ggtgattttg gttgcggtct ttgtgtaagg 300

aggctactga ttgttgtagc cttcacccaa actttatcag agtctttaat gaatggacaa 360

gttcatcaa 369

<210> 5080
<211> 167
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056g01b1

<400> 5080

ttggtggaca cccagagtcg gatgtgtggg tggaagaggc tggactcgcc tcctaatata 60

gtttgaaccg accctatata gatatatctg tgtcaggtaa gaaagatcat ggaaagatag 120

ggtcatcacg gttgtggggt ggatccgatg acgaaagaag agctgat 167

<210> 5081
<211> 504
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316056g02b1

<400> 5081

tgttgagaga gagagagaaa gagtacacag cggcggaggc gatggcgaag ggcgggaagg 60

ggttgaacgc gacgggcgag tttttccggc gccgtgacga gtggaggagg cacccctatgg 120

tggggaacca gctgcgccac gccactccgg ggctaggcat cgccatcgtc gcctttggga 180

tctaccttgt cggcgaggcc gcctacaacc gactctaccg ncccgccgga gacaaccacc 240

actagatctc ccccagaggt aaagtagatg gagcaaactt taccgaagca ccaatgactg 300

atcttttccg gattgatctc ataaggtctg catgaccacc ttgtaattcg cgatcaggag 360

acgtgctgtt ggttcaacta gttttcctgg aacgcgtgtc ctttaaatct gatactattt 420

tgtggatata ctcggcatct ggacatggca ttngtttttt ttctttttga ccctaggacg 480

tggcattgtg gttcttacat tact 504

<210> 5082
<211> 160
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056g05b1

<400> 5082

gcgcttgcaa agtcaaagac cgcgtaaatc ttatcgatat gtcttacaaa attcgctgtc 60

acatcactgt gtttctcatt tacgtcagca aatcaaaagt ctgttcttgt tgggcactag 120

attattaaac tctctgtcat gtgaatgtgg ttgttgctgc 160

<210> 5083
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056g07b1

<400> 5083

tcgcaaaccc tatcttgccg ccccggggag cacgagcccg ccgaccatgg ccgacaagga 60

gaacgcggcc cccgccgcgg cggcgggccc ccggctcacc cgtgccgcgg ccaagcgcgc 120

cgccacctgc tccgcgggcc cctccggcgg cgccaagcgg aagcgggtgg cgctcagcga 180

gctccccatc gtctccaacg cgggggtcgt cctccgccag ccctcgaagc ccgccaagcc 240

cgcggctgcg gccgaggggg aggagcagca cgggggcttg agcaggggcg cgtccacctc 300

gccgaccccc gtcgggaggg aggtcagcgg cggcggcggc ataacccagc tcagcgggtc 360

ctacgcctgc gacatctaca cctacctgcg cactatggag gtggaggcgc ctcgccggcc 420

ggcggcagac tacatcgagg cggtccagac ggacgtgacg gccaacatgc gggctatcct 480

aatcgac 487

<210> 5084
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056g10b1

<400> 5084

cgagctgccg gcatggcgag gccgtccatc tccctccacc tctgcctggc cgtcctggcc 60

atggccgccg ccgagtccga ggccgggttc tacgaccagt tcgacgtggt cggctccggc 120

aacaacgtgc gcgtgaacga ctatggcctg gcccagcagg tggcgctcac gctcgaccag 180

ggcaacggcg gctccggctt cagctccaag gacaagtacc tctacggaga gttcagcgtc 240

cagatgaagc tcatcggcgg caactctcgc ggcaccgtca cctacttcta cctgacgtct 300

ggggagggcg acggccatga c 321

<210> 5085
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056g11b1

<400> 5085

tcggtaacaa ctagaaaccc acacgcgcga gaggaccata aaacaaacat aaccagaagt 60

cacatggcca cgtccatgat gaccgacaga acgcacaact taccgggtcg gcggctctca 120

gggttcctag attccttgcg ctggagtgca tggctaatag ctgaactata gggccacctc 180

taacaaatgc acggacagcg gtacccagca atacggctgg gaaagccatg gggtgaccaa 240

acttaaatgg tttgccatct atccgaggat ctccatttcg cgagaactca tataggccat 300

acacgatcgt cttaaccaac attggcacgg caaaaccggg gattggaaca ccccttgtcg 360

agggacatat accccgtccg tcaggtgggt t 391

<210> 5086
<211> 197
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056h01b1

<400> 5086

ttggtgagcg agagagagca agtgtgcgcg ttggcgaagg cgaaggcgaa tgctaatatg 60

gtgttgaccg caactgggga ggtcttttta gagcatccaa agtgacggac gcacgcttgg 120

gacgtcatcc atctgctata gggtactcta agtcaaatga actgcttggc tgtctcaact 180

atctagactt ggcaaaa 197

<210> 5087
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056h04b1

<400> 5087

ttgctccaat cccctccaat cccaccttcg gaacagcagc cagcaagcgt agccagccat 60

gtcgggccgc ggcaagggag gcaagggcct gggaaagggc ggggcgaatc ggcacaggaa 120

ggtgctgtgc gacaacatcc aggggatcac gaagccggcg atccggcggc tggcgcggcg 180

gggcggtgtg aagcgcatct ccgggctcat ctactaggag acccgcggcg tgctcaagat 240

cttcctcgag aacgtcatcc gcgacgccgt cacctacacg gagcacgccc ggcgatgacc 300

gtcaccgtat ggacgtcgtc tacgcgctca agcgccaggg ccgcaccctc tacggcttcg 360

gcggctgagc gcggttcgtg cctcgcgtgg gatttagatg tggttaggcg ggtcgtcgtt 420

ctgaggtgtg ctatgcctgt gtgtgcgtgt gcagctgcgt gc 462

<210> 5088
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056h05b1

<400> 5088

ttgtggacgc gtgggcacga accaacccag gcgctcatac atagtcagtc agcctttgca 60

accatgaggc cacacgtgct gctcgccgcg ctggccgacg tggtcatact aacagcagct 120

gttgccctcg cccacgggca aggggcgacc ccaagcgcct cgccgtgctg caacaactgt 180

ggcacctgca ccaggaacat cccggccagg tgcacgtgca tggacccgta gacaagcggc 240

tgctacccgg cctgcaagac ctgcgacaag ttcaccgtcg ccggccaaga cagctttcag 300

tgcaaggacc gtgtagccaa cttctggcag cacagctgca ctaacgccgc gtgactcgac 360

ctgttgatac cagaataatg ccagttagct tgagctttta ctgtgcttct cgcagtattt 420

gagagaaccc tctgcatctc gctatggtag ctagatgcag agacgatatg gagttggatg 480

catgc 485

<210> 5089
<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056h07b1

<400> 5089

ttgaaaagtt tcatttttaa atttgtgctt ctggaactgt ttgggaatgg agacttgatt 60

gttgttccct gtaatgcgtg gcttatttct gtcaaaaaca gtgcaaagta ttcatgtgaa 120

tgaaggatga tagtctgtac tgcataaaaa caaaagaact gactggccgc ctacactcgc 180

tggaaaggaa aaaagatgca gcttgataaa ctaattgaga cgaaagaaag aacaaccttt 240

tctaaatgga gaaaggggg gggggttttg aggaacccag gtttactaac gggggt 296

<210> 5090
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056h08b1

<400> 5090

tcgcgtcgcg ctcgccactc agagaagatg agggagatcc tgcacattca gggtgggctg 60

tgtggtaacc agattggttc caagttctgg gaggtggtgt gtgatgagca tggcatcgac 120

cccaccgggc ggtatgtcgg cacctctgac ctgcagctgg agcgtgtcaa cgtctactac 180

aatgaggcct catgtggtcg ctttgtgccc cgtgctgtcc ttatggatct tgagccgggc 240

accatggaca gtgtccgtac tggaccgtac gggcagatct tccgccctga caactttgtg 300

tttgggcagt ctggtgctgg taacaactgg gccaagggtc actacaccga gggtgctgag 360

ctcattgact acgttcttga cgttgtcagg aaagaggctg agaactgtga ctg 413

<210> 5091
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056h09b1

<400> 5091

gacgaacccg acaggtatgt tattctgggc aaccatcatg atgcgtggac atttgtggca 60

gctgacccaa acaggggaac ggccgccttg cttgagctag catagaggtt gtctgagcta 120

caaaacatgg gttggagacc ttgtcgaacc atgattttgt gtaattggga tgctgaatag 180

tacggcttga taggttccac ataatgggtt gaagagaaca gggcaatgct aactctcaga 240

actgatgctt acctgaatgt agatgttggc gcgggtgctt ctggagttga cgcatcaggc 300

actcatcaac ttgatgagtt gctcaagcag gcgagtaaaa aggatcaaaa tccggataat 360

ggaacagtta gtctgtatga ctcgtggat 389

<210> 5092
<211> 538
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a02b1

<400> 5092

tctgacgcgt ggggtgcaaa gcggggaatt gtgacaaagt tgattgtttc atgggccccct 60

gacgtatatg atcctcctgt tacttctgac tcacacacag tgaagccgca ccagagaagt 120

tcaaggaaga gccactacaa atacaagccc ccaaagggca gcagcagcag cagcagcagc 180

cgcactagca gtggcagcaa aaaggacaag aagcattctc accacagcag cagcagcagc 240

aaaagagata agaaaccttc ccatcgcagt agcaatggtg gcagcagcag aattgacact 300

agtgatcctc aacatcggaa ggcatatggc agcatcacta gcagcagaac tgacactagt 360

gttcctgaat atcataagtt atcaccgtgg cagccaccgg ctagtgccgc agtggaagaa 420

gccataccta ccgtacctgt actgaaggcc atggaacaga tcaaacgtag ttccagctgc 480

tgcaaggagc cgtcgataag catgaaggcc atggaacaga tcaagcgtag ctccagct 538

<210> 5093
<211> 342
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a03b1

<400> 5093

tcccacgcgt ccgcgccgca acgcgccgct gctgggcctt gggggcatgt ccgacgacga 60

cctccgcggg atgctcgccg agggcgactt cgacggcgac ggcgcgctct cccagatgga 120

gttctgcgtc ctcatggtca ggctcagccc cgacctcatg gaccagcccc gccggtggct 180

cgacgacgcc gtcgcccagg cctcccactt cctcttcacc agctagattc cggccggata 240

ggaaaattaa tcttcttctt cttcgttgtt gtttcttctc tcccccgctg ttcatagagt 300

caggattcga gaaaagaaaa ggcactgtcg attggttgaa tg 342

<210> 5094
<211> 236
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a04b1

<400> 5094

tctcttatgc caccactcca tatcgctgcg agtgggagcc atgagacaaa cagccacgtg 60

ctggctggtg ggggaccctg atgagcatat gcacatacaa gtggcgcatg atggatcact 120

gggggcgttg ataaatactc tacgtcctct tccaaatgaa tgacatgact ggcggctagt 180

cttcatatta tggcaactta accgaaaatt actgctgacc gggtcagaaa gaagaa 236

<210> 5095
<211> 86
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a05b1

<400> 5095

acgcgtccgc ccacgcgtcc ggtgtgctct cggcgcaatc acgtcgcgtg cgctgttacc 60

cgctcgcctc gcttatgagt cgcttg 86

<210> 5096
<211> 251
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a06b1

<400> 5096

ttgtttcctc cacaatcaga gcaagcgagc gaccaagaaa ccatcacagc gaccatcatc 60

ttctctgcct ccatggcggc gcaccagcag cagcaaccgc agcaggcggt ggggttcgag 120

gactacctgc cggtgatggc ggagcggctg ggggaggagg gcctgatgga ggagctggcg 180

gcggcgttcc gactgctcat ggacccggcg tcggacctca tcaccttgca caggctccgt 240

cgcaacgcgc c 251

<210> 5097
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a07b1

<400> 5097

ttgctcaccc agtcgacaca gagcgagtcc tcaaccatgg caagcacgcc agacgagctg 60

ctggagggtc ggcgtgagat cgccatgtga ttccatgggg cctgattatg gatggtggcc 120

gatgttgccg tggttgagcc cagtcactga ctaatgaata tctttcagcg ctctcttggg 180

cgccatcaca acaatgtcat cgtgacgggg gcctgaaccg gacgaacgaa gcaagctcgc 240

tcgcacggcc tctacctgta ggactggata gactgcactc ggtcttcaac ttgcccttcc 300

actcactggg acactacagc gtctggtgct ctgcagcggc gtcgcaacat attcaccaca 360

tgcaa 365

<210> 5098
<211> 462
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a08b1

<400> 5098

tcggatgttc agtcatcggg tgctagttct tttataccta tgtataatcg aacttttgt 60

agattgaatc ggttgttcta tacgaacaat cctggagatg ctttggtctc acgtgctcct 120

gatattgcaa aatttcaact ggaaatagat agttcatctg gcaactttgg tgcaacatct 180

tctctccata gatgtgcatc tgatgacttc catttctcgt tttggttagg agttcccacg 240

atgggatggt tacaaactta aagtccaagt gactataaaa gaaacaacaa aaacatagta 300

aaatgtataa aattacgcag ctttcccccc accactggtg gggggttttg gagctgaccc 360

cttaggaaaa caattcttcg attgtttgct agatacgtta tgagacggac ctgtttaagg 420

ggccgttcca tttctgaagc taacaaactg taagtcgttg at 462

<210> 5099
<211> 260
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a11b1

<400> 5099

ttttgccggc tgcgtcataa ccgacgagtg cgcccagcag gtgtccacag agtcggtgtg 60

gacggtggtc ttctccggcg aggacacggt cggcctgccc gaggcctgcg cgggcttcat 120

cgacgccggg gacgttgagg gcgacggcgg acccggcagc gtattcacca tgacgctcag 180

ctcggtggca gaagagctcg cacgctcggg cgtgatgagg agccacctgg aggaactcga 240

caaccccgcc gggtgctaaa 260

<210> 5100
<211> 272
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a12b1

<400> 5100

ttcttaaaaa caaaaaaaaa aaaaaagtga gaaaaaaatg attaaaacaa caccgataat 60

tctgaatgaa tgaacctgat gagtttgtgt tcgttacaac tggcgtaagt atggtcttta 120

ggggccattg atactttgag gggggggggcc tgttttaggg ataccatgtt tgcccccctt 180

cgcttgctgg gtgaacatct ttttttgggg tgcccaactt aaaatgacgg gggcggtttt 240

tgtcatcctt gtggtgggga aaacccgggg gg 272

<210> 5101
<211> 494
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b01b1

<400> 5101

tcggtggcca gaaggcaaca acaaagtgcg cgtgagaaat aagcggtgct tgccaagcag 60

agagagagag agagagagag atggcggcgg cggcgacggc gacgactaca gcggcggcga 120

cggcggcggc ggtggggccg ggggaggtga tctccgacca cagcctggag cagtggacca 180

tgcagatcga ggaggccaac gccgccaaga agctggtggt gactgacttc actgcatcat 240

ggtgcggacc atgccgcatc atggctccaa tttttgctga tctcgccaag aagttcccag 300

ctgctgtttt cctcaaggtc gacgttgatg aactgaagcc cattgctgag caattcagcg 360

tcgaggccat gccaaccttc ctgttcatga aggaaggaga cgtcaaggac agggttgtcg 420

gagctatcaa ggaggagctg acgaccaagg atgggctaca cgcggctgcc tagtaatcac 480

ctagcggagt agta 494

<210> 5102
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b04b1

<400> 5102

tgttgacgcc gccttacaag atgttcaacc agacgctgct ggatctggga ctgcaggtca 60

ctcctgtcaa cgactatctg tacgagacgg tgcatagcct gcacgaaaag gggcacctgc 120

cggtgcaccg gaaagatgtc ctcccagagg cactggacag ccaacagcgc gaaggtgctg 180

gagcaacaac gcgggtcacg ttaagctgta tcgctgcggg acatcgaacg tggtccgtct 240

ggggatacat tctatctaat atagtgttgt ttaagtgaac tacacaaatt ggttatgtgt 300

cggcttagat ggacggcact taaaagtgag ctctcgcaaa ctattcattg gctttgttgc 360

caggacttct tttttattga tgcagtgt 388

<210> 5103
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b05b1

<400> 5103

ttgctatcct ccacaatcag agcaagcgag cgaccaagaa accatcacag cgaccatcat 60

cttctctgcc tccatggcgg ggcaccagca gcagcaaccg cagcaggcgg tggggttcga 120

ggactacctg ccggtgatgg cggagcggct gggggaggag ggcctgatgg aggagctggc 180

ggcggggtta cgactgctca tggacccggc gtcgggcctc atcaccttac acagcctccg 240

ccgcaacgcg ccgatgctgg gcctgggcgc catgtccgac gacgacctcc gcggaatgct 300

cgccgagggc gacttagacg gcgacggtgc actgtcccag atggagttct gagtcctcat 360

ggtcaggctc agccccgacc tcatggacca gacccgtcgg tggctcgacg acgccgtcgc 420

ccaggccttc cactttctct tcaccagcta ggcggagcat ct 462

<210> 5104
<211> 238
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b06b1

<400> 5104

tcttttccct actagcggcc gcggcggcgg gttcatgaag atggctcagg ggttcatgaa 60

gtacaagtct ggtttctgca tctacatgca tgtagctctc gctaagtatg tgcgctgcgt 120

gctactgtat aacgttgtgg gtgtgcttaa ttatgttagc tggtgatatc tggctctgtt 180

aagtttaaag ttccttaagt catgtatgtc tgtatgatga tcaataatgc agatgagc 238

<210> 5105
<211> 381
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b07b1

<400> 5105

tcggcggccc aggcatagcc ggctcgtgcg ttcataccta tgcataatcc acctctgtgg 60

ctactgaatc gcctgttcta tacgaacaat cctcgagatg cttaggcatg acctgctcct 120

gatattgcaa aattgcaact gagaatatat cgatcaactg acagcttggg cgcatcatct 180

tgtttgcata gctgcgcaac tgatgactta catctgtcgt tacgaataga agattccacg 240

atgggatggc tacaaactta aggtccactt gactataaga gacacaacat agacattgta 300

caatgtataa cattgcccag attgcccaac accactggtg gggggacttg gagctgaccc 360

cttacgaaaa catttcttcg a 381

<210> 5106
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b09b1

<400> 5106

tcgccgaggt gtcttcgcca gggcatccgg tgactacgcc atcgtcatca gccacaaccc 60

cgacaacggc accttaagga tcaagctccc ctctggtgcc aagaagattg tcccaagcag 120

ctgccgtgcc atgattggtc aggttgctgg tggtggcagg actgagaagc caatgctcaa 180

ggctggtaac gcctaccaca agtaccgtgt gaagaggaac tcgtggacta aggtgcgtgg 240

tgtggccatg aaccctgtgg agcatcccca cggaggaggt caccaccagc atattggtca 300

cgctttcact gtacgccgtg atgcaccacc tggccagaag gttggtctca tcgctgctag 360

gaggactggt cgtctcagag gccaggctgc cgtctatgat gccaaggccg acacggccac 420

ttagagctat cattgctgtt tatctatg 448

<210> 5107
<211> 325
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b10b1

<400> 5107

tcgcccacgc gtccgttcga cttccgccgg ccgcagcaac cgaagccaag tttcgaagtc 60

gccgccgagg aggagcaggc gaccagacgc catggcccgt accaagcaga ccgcccgcag 120

gtccaccggc ggcatggcgc cccgtacgca gctcgccacc aaggcggaca ggaagttggc 180

gcctaccacc ggcggcgtga agaagcccca ccgctgcagg cccgggaccg tcgtcctgcg 240

ggagatccgc aagtaccaga agagcacgga gctgctgatc cgcacgctgc cctttcagcg 300

cctggtgagg gagatcgccc aagac 325

<210> 5108
<211> 126
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b12b1

<400> 5108

atgccacgca ctccaatcgc tctgaggggg ggtgttggga caaaaatcca tgtgctgcat 60

cgtgtggtgc tctgacgagc acattcatac acatgttgtg cctgtattta taactggatg 120

cgttga 126

<210> 5109
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c01b1

<400> 5109

tcggtgacca ccgggtggcc tcaacgtgag cgtaccatgt ttcaggcggt agcgatgctg 60

ctgctgactg acccagataa gttgctgttc gtacaactgg cgggactacg gcccttgggg 120

gccatggttt atttgcgccg gagtacatga tcaaagatga actgatggac ccccta.atca 180

agctgattga acagctgaac ccagatgtga gactggcgga gactgactga agaactagca 240

tcttcctgtg gcagaacaat cataggatgc tagatgacgc gatgactaaa ataggcacta 300

accttcggtt tacaacatag tgactgat 328

<210> 5110

<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c02b1

<400> 5110

ttcatctgca gctacagctc ctcttcagca caacccttтc ttcaggacac agatcaatcc 60

agatacacat acaccacctg ccgagtgccg acgtctagct gctagcttac tttcagaatc 120

cagatacaca cacacctgcc ggcgtccgtt gctgcatatt tcgatggagt gcgagaacgc 180

acacgttgcc gccaacggcg atggcttgtg cgtggcgcag ccggcgcggg ccgacccact 240

caactggggg aaggcggcgg aggagctctc gggtagccat ttggaggcgg tgaagcggat 300

ggtggaggag tacccgaagc cggtcgtgac gatggagggc gccagcctga ccatccgat 360

ggtcgccgcg gtggctgccg gcagcgacac cagagtggag ctgga 405

<210> 5111
<211> 163
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c05b1

<400> 5111

tttttcacgc gttcgtccac gcgtccggat gtggtcaagt gcaaacctat ttcaagcatt 60

cagcaatggt gtcgcgtcca taattcagag gatatcatag agtacctcat attgaaagaa 120

ccatgtgatg tttgatggct tgctatatat gtgatggatg atg 163

<210> 5112
<211> 477
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c06b1

<400> 5112

ttttatcccc aaatcgcaag atcaaaccct agactcgccc cacagtttct tctaggtcgt 60

cccaaatcgg agaagataga agcctaggta tcgaagatgg cagatccagt agcggatcca 120

gctgctctgc caatcgtgcc ttgtccggat tgcggcagga acgtggtgac ctacgttgct 180

aggcgtgggc agaacgccgg tcagcgtttc tacaagtgcc ggaatcacaa cccttcagcg 240

ggcggatgcg atttctacag gtggcagcaa ggctatgtgg cgcatctcgc caatcttgaa 300

ggaggagaag ctgctgtggg tcaaatcggt ccgggtcaga cgcagggtgg gcaagcggtc 360

caagctcaag ttgtgcaggc gctacacggc cagcccgtgc agcaaaatgg gccgccggag 420

gcgtcgcagg ctgcatcgtt tgcaagtgct gtcgcaggat atatgctcgc ggctgct 477

<210> 5113
<211> 381
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c07b1

<400> 5113

tttctctcca tctcactcac tctctgcctc cgccgctggt gcagcgtcct ccccgcgact 60

ccgatggcca gcaagtgggt caggcccgag gtgtacccgc tgttggtggc gacgggcagt 120

ggccatcggc atctgcgcct ttagcctctc ttggcaacat caccggcgac ccagaagtca 180

tgatcaacaa gatggggagg gcagcgggag tgcttgagaa ccatgaggag ggcaggcgct 240

acgcctagca cggactaaga gcctatgtgc aggacaagac ctgcgagatc atgccaggaa 300

tcaacatgtt ctctaccagg ccagagtgaa gcactttagt ggtgctgtga ctgctaatta 360

gtaactggtg tgggcaagtg c 381

<210> 5114
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c08b1

<400> 5114

ttgaaacagt aaacagagag ctcgctctcc gtgaatgatg tcgaggaaga ggaggaagaa 60

gaagaagtgt ggagcacgct gctgctacct ggtcacgctc tcagcagtgt gaattcccag 120

aagcatgctt gccgtgcctt gttacgggtg caccggatgc tggcatgtga gcagggatgc 180

ttcagtgatg caaaacaaaa aaggcaagtc ttatcggcaa gggaaggcta cgcacttctt 240

ccaggtctcc ctgtcttcat ctaaatctgt gattggagga gggggctacg ggtagcttac 300

ccaccggttt actgcgtcct tgtgagttgt gatcattatc atgcactcgt cagttgcttg 360

tcatgtatgg tgttcttgaa tt 382

<210> 5115
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c09b1

<400> 5115

ttgcccacgc gtacgtgtta atctcatttt tgttggaatg ctagtaaccg gaatgtacag 60

tttgaagtac ataaatgttg ccatggtgac gatattgaag aacatgacaa acattttaac 120

ggctgtaggg gagatatatg ttttcaggaa gtgtcagaac aaacaggttt gggctgcctt 180

atgcatgatg attatattag ctggcagcgg tggtatgaca gatctttctt tccatttaat 240

cggttacgcg tggcagattt tgaattgctt tctgacagca gactattacg ttacactgag 300

acgcctgatg gacacagtca aacaatcaac tgaattgggt tttgtcaatg aagtttctat 360

ggtgttactt aacaatgggg tctacatccc tttcgaggac attttgatta ttgtcttgaa 420

ccagtgggaa tacgtgtacc 440

<210> 5116
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c10b1

<400> 5116

gtcacatcca aagatttcct tcaaccaaca ggttatcata tggtgggcag gtctcatgag 60

aggagcagtt tcaattgcac ttgcttataa caagtttaca acatctggtc atactgctgt 120

gcgagttaat gctgtcatga tcaccagcac aatcattgtt gttctgttca gcacaatggt 180

tttcggcttg ctgactaagc ctctgattaa tctcctcatc ccaccaagac ctggcaccgc 240

agctgatatc tcaagccagt cattcctaga cccacttacg gcgagcttgt tggggtcgga 300

cttcgatgta agccagctca ccctccaaac aaaccttcag tatcttctca ccatgccaac 360

tcgctcggat catcgtgtat ggcgcacgtt cgatgatcag ttcatgcccc catg 414

<210> 5117
<211> 353
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c12b1

<400> 5117

gggaaacacg aatttttggg cgaccacagg caagacggac agagagagca ctaagaagca 60

ggcagcaccg cagaagcggc cggacgacac ggaggagtaa agcggccgaa caaccggaga 120

aaagagggca cccccgaggc caatggaaaa cagaggagga gagcgggaca aaagaagcac 180

agagcgcccg cctccagaag aaggggggaac aacagaaccg agaagacacg actgacggcg 240

acgaaagaag aacgggagcg ccgagaggca gacccgaaag aggagcacga agacacgagg 300

acaaagcaag gcacgggccg gaagcagaca acgacacgag agagaaaacc cag 353

<210> 5118
<211> 285
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d01b1

<400> 5118

ttcatatcaa aatacgcgcg gtctggacta cagccgttgc tccaaggcgc atgtaaatga 60

atattcacgt acacgatctg ccgggagtcg gccttgagcg gctaacggac gatcagtggc 120

cggatacgca cactggggac gaagaacgga gcacaatact acatgcgagt gggatggcgc 180

acacgtagtc ggcagctgat accgtctgga cgtggaacag ccgatacgga ccgaccgatt 240

caactgagcg atcactgaca tggagcttat ctgtatctat ttgga 285

<210> 5119
<211> 353
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d02b1

<400> 5119

atctgcagct acagctcctc ttgagcacag ccctttcttc aggacacaga tcaattcata 60

tacacataca ccacctgccg agtgccgacg tctagctgct aactgacttt cagaagccag 120

agacacacac acctggcggc gtccgttgct gcatatttca atggagtgcg agaacgcaca 180

cgttgccgac aacggcgatg gcttgtgcgt ggcgcagccg gcgcggaccg acccactcaa 240

ctgggggaag gctgaggagg agctctcggg tagccatttg gaggcggtga agcggatggt 300

ggaggaacac cgtaagccgg tcgagactat ggagggcgcc agcctgacca tcg 353

<210> 5120
<211> 300
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d03b1

<400> 5120

ttgtttacga gcagtgcgcc tcgctctgct gcggagactg ttcatcaagc tgtggcgttt 60

ctgctgccag acaggcttga gaagtagcgt tagaacctcc ggccatatgg tggctgcttc 120

gatggcgatc aataggagca aggacgagaa gacgaacgag tacgaccaga ggctctctca 180

gcttgttggg ggaaacacca aggcgcgtat taccgacgac gacgacgaaa gaacaaatga 240

tcctcagggg agccgcaagg gacgaggagg ctgatgcaac gagctcatgg gcaagaacat 300

<210> 5121
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d05b1

<400> 5121

ttggtctcct ccgaacgtca cgctccgtcc gtgcgcgttc aaggccatca acgccatccg 60

cgcgctcctg cagagggcgt gcggtgggcc cgtggtctac tgcgccgaca tcggcgcgct 120

cgccgtccgc gactcctgcc acctggccgg tgggccaagg tacgccgtac cgctcggtcg 180

ccgcgacggg ctaacccccg cgtccctgga caccatcttg ggcgcgctaa cgccgacgac 240

ctccaaggtc cacgtgctcc tcagcttcct ggccaagatc ggactcgacg cctacgacct 300

ggtggcgctg tccggtgcgc acacgctggg gatcgcgcac tgcggctcct tcgaggagcg 360

gctgtctccc aaggaggacc ccaccatgaa caagtgggtg cgacggccac ctcaagctca 420

cctgcccgc 429

<210> 5122
<211> 249
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d06b1

<400> 5122

ttgttttcct ccgaacgtca cgctccgccc gtgcgcgttc aaggccatca acgccctctg 60

cccgctcctg cagagggcgt gcggtgggcc tgcggtctgc tgggcccaca tcggcgctct 120

ggtggtctgc cactcctgcc acgtgggcca tgggccaaga tccgctggac cgatgggtct 180

ccgcgagggg ctaacacccg catccctgga caccatttgt gggcgcgcta acgccgacga 240

cctccaagg 249

<210> 5123
<211> 267
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d07b1

<400> 5123

tgttctaaac cgcgaacaga gagctcgctc gacgtgaatg atgtcgaggc agaggcggac 60

gatgaagaag agaggggcac gctgctgcta cctggtcacg ctctcagcag cgtgaattac 120

cagatgccat gcttgccggg ccttttttccg ggtgcaccgc acgctgccat gagagcaggg 180

ttgctctaga gacgcacaaa aaaaaaggca agtatgatac acaagggaag gctactgctt 240

tattccaagt gtaaatggat gcatata 267

<210> 5124
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e01b1

<400> 5124

gacgtggtcg cgcttctcga ccacctccgc ctccccaagg tggtggtggt ggggcacgac 60

tggggcgcgc aggtggcgtg gcatttctgc ttgttccggc cggaccgggt gcgcgccgtc 120

gtcgcgctgg ggatcccgtt cttcccccgc tcccctcgtt cgatggcgga gatgttcgcg 180

gcgcgcggcg atgggttcta catcacgcag ttccaggagc ctggaagagc tgaaaaggca 240

tttgctcggt acgacgttgc gactgtccta aagaagttct actccattga attagatgac 300

cttgctgctc ctcctggagt agagattata gatttttttcg atgtgtcatc atccccactt 360

acttggatga ccgaggaaga actgggccag tatgctgaga agtttcagaa gtctggcttc 420

accggacccc tcaactacta ccgtaacatg gacacgaact gaggcttact gcaccctggc 480

acgctgcata gatcaca 497

<210> 5125
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e03b1

<400> 5125

tctttcctta ctttttttttt ttggaaagaa accaagcaac aaagcatttc tcattgccaa 60

cacacgcaca cgcatacact ctcgaccgat cgatccagct ctccaacaaa ttttacaggg 120

tcgtgattta actagcggat gctctccttt tcggagtacg tacgtagtaa gactagtagt 180

agcagagtga tcctgattat acttgagcta gctgccgcat ggcatttctc atcacggtgc 240

gcgccaaaaa gaagaagaag cagctggaac gaatgagcat cacacatctg agcgccatgc 300

gtcgcggccg atcgaaattt cgcgggaacg tgggcgtggg ggcgagcaga acagaccggg 360

aacagaggag ccaccgacgg gctggctcac atgaatctcg ggccggccga tgtggtggcc 420

gccgcggtgg tcgacaccat catcatgcgc gcgaagtcct ggaagcc 467

<210> 5126
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e04b1

<400> 5126

tcgttcacgc gtccgcatac acggtgtact attgccacac cgtcaaccct acctccgcgt 60

acacggtcac ccttgagagc gtggatggcg caatggcgcc agaggtgatg gaggctctag 120

ccgtgtgcca ccttgacacg ctgcggagga gcccgaagaa cccgatcttt gagctgcaca 180

ccctgaagcc gggggatgtc gacgtgagcc attagcttac taagctcaac atcatctggg 240

tgcgtgcagg tgagcagggt gacacacatg cgggaggcca ttagaagagg atacacgtgc 300

acctgtgtgg gctgattgtg tgagccgtga cacatacatc ggaccatgat atgggtgaat 360

ctatgctaac tgcgtgatga tgttatgaaa taagtggtgt gtgtgagttg tcgtatgaac 420

tacataatat gtga 434

<210> 5127
<211> 160
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e05b1

<400> 5127

ccctcttttt ctatatatgt acacaaacat atccacgggg tggtttgact acagtctgct 60

tgcagtgcat gcactcctgt gtgctggtac tggactactt cttctgtgca gccgttgatg 120

gcgcatgagt atagttgtaa cttgtgaatg cgcgaacttc 160

<210> 5128
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e07b1

<400> 5128

ttctctctaa ctaaacagta aacagagagc tcgctctccg tgaatgatgt cgtggaagag 60

gtggaagaag aagaagtgtg gagcacgctg ctgctacctg gtcacgctct cagcagtgtg 120

aattcccaga tgcatgcttg ccgtgccttc ttccgggtgc accggaggct ggcatgtgag 180

cagggatgct tcagtgatgc agaagaaaaa aggcatgtct tatcggcaag ggaaggctac 240

gcctttcttc caggtctacc tctctccatc taaatctgtg tttggaggag ggggctacgg 300

ttagtttacc caccggttta ctgcgtcctt gagagttgtg atcattatca tgcactcgtc 360

agttgcttga catgtatggt gttcttgaat tttcagctac ataatggtcg gttgtctgag 420

tgaatgataa ggtgttcttg aatgctcatg t 451

<210> 5129
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e08b1

<400> 5129

tttcccacgc gtccgcccac gcgtccgcgt cccgtcttcc cgccgcctcc tcctcctccg 60

cgtcgcaaac cctcgttcaa atccgccgaa tcccgcgacc caggaaccaa ggtagatcga 120

tggcgaagag ctcgttcaag ctggagcacc cgctcgagag gaggcaggca gaggctaacc 180

gcataaggga gaagtactct gacagaattc ctgtgatcgt tgagaaggct gggaagagtg 240

ctattcctga cattgacaag aaaaagtacc tcgtccctgc tgatcttaca gttggacagt 300

tcgtgtatgt cgtacggaag cggatcaagc tcagtggtga gaaggcgatc ttcatctttg 360

tgaagaacac tcttgcacct acagctgccc tgatg 395

<210> 5130
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e09b1

<400> 5130

ttgctgacgc gtgggcagac gcgtgggcgg acgcctgggc cgcaatctac gtttgatact 60

acgtccaccc caagtgcccc aggggctgtg tcggcgtgcc gagtggtgtc tacgagcccc 120

ggaatgtggc gctgcgcgga tatgaaattc accgtcgacg gcacctgcgg tgggcgctgc 180

atgaagtact gacaggctca tgccagcatg atatgtaccg cctaaaatga aataaaagct 240

cacacgagaa gagcagcgtc atggtgccta tgcgtgtgtg agtggtcaac aaatatgtat 300

accagtatgc cgtgtctttg tagatgtgtc atctatctcg agaaaaagtt ggtgttgctt 360

gctgttcaca tatccggaat atacttcgtg aataagttat gattgtacgt gggcggcc 418

<210> 5131
<211> 287
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057f02b1

<400> 5131

catccatccg cccctcgctg ccgctgcgtc tcgtctccac caccccactt gcccccggac 60

tcaggaggat cgtcggagat gtcggacacc gatgagcacc acttcgagtc caaggccgac 120

tccggcgcct ccaagaccta cccgcagcag gccggcgcca tccgcaaggg tggacacatc 180

gtcatcaagg cccgtccctg caaggttgtt gaggtctcca cctccaagac tgggaagcat 240

ggtcacgcaa agtgtcactt tgttgccatt gacattttta atgggaa 287

<210> 5132
<211> 227
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057f06b1

<400> 5132

ttttgaccac ggctgggacc aacagtcagg actggttttc tgggaacttt gggtttgggt 60

cccccgggat gccagcaaat gggtccacac ccggacgtgc taacaagagc gcatgcaccc 120

ttacctcttt taccatggcc tcttaatcaa gcaaagagta cgaatttgcc tcattaacgc 180

aaggaatgta gtcgaagcga tgaatggctt tgaatacttg gagatgg 227

<210> 5133
<211> 258
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057f07b1

<400> 5133

ttttgtttcc accggccctc gatggcgttg gatcgctggg tctcaacagt acttgccgct 60

gcactcagga ggaacctgct gagataccag acagccatca tgaccactga gggggcgttg 120

atggacatcg attttctaag acgtactcgc tgaagatcga tcgcatgacc aggggtggac 180

acttgattat caaacaactt ccctgtaatg ttgtagtgga atcaacgaac aaaaatgtga 240

agcttctgct cgcattgt 258

<210> 5134
<211> 504
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316057f10b1

<400> 5134

tcggcaacga gggcgagtac gagcggatca ccaaggagga gaagcaccac aagcacaagg 60

agcacctcgg cgagatgggc gccgccgccg ccggagcctt cgccctctac gagaagcacg 120

aggcgaagaa ggacccggag cacgcgcaca agcacaagat cgaggaggag gtggccgccg 180

ccgcagccgt cggcgccggc ggcttcgtct tccacgagca ccacgagaag aagcaggacc 240

acaaggaggc caaggaggcc agcggcgaga agaagcacca ccacttcggc tagatcgtcg 300

ttgacgtgcg gtggccggcc tcgccgacgg ccgtgcgtgt gcttacgtta cgtgtgttcc 360

ataaagtgag agaggctggg acgcgggccc ggtctcgtgc tcgcccgtgc gtgattttct 420

ctgcgtgcta agcttacgcg tgcctgaata agtggggttg ctgttcatgc agtggctccc 480

acacctcatg cgtcngtgtg tgtc 504

<210> 5135
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057f11b1

<400> 5135

gccaaggctg ggaacaacaa tcaggacttc ttttctggga acttcggttt tggttcgccc 60

ggcatgccag caaatgggtc cacaaccgca ggtgctaaca agagcgcatc caccgctacc 120

tcttctaccc tgccctctca atcaggcaaa gagtacgatt tttcctcatt aacgcaagga 180

atgttctcga agcgatgaat ggcttgaaat acttggagat ggatgaggcc tccattgggc 240

gcagatttag ggagaacgtt gggggggcgct tgtacactgt tttaccgagg cagctttgcc 300

agttgtggat acatagttac atcaccttgt gggtcaacaa gtgcggatat ggcagaaaac 360

tgctcatgtt gtttcctaca gctgaatagt ctcattgtta cagtgatgcc aaagaactta 420

aaacagagga ttcccttgtg ggcctgttga actattctct tgttcagggt gtagttgcaa 480

taccacatat cgattac 497

<210> 5136
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057f12b1

<400> 5136

cccacgcgtg cgcccacgcg tccgcccacg cgttcgggga cgcgtgggct ccggcacgtg 60

ctgaaaataa tgagcctata ctgacattgc caaaacagac acctcaacgg cacaatggag 120

ctggttcaca gggccaccac aactataggg gccgtggaag gggtagaggc agcgcgtggt 180

ctgaagcgtc aacaaaatat actgaagagt acgattatat ggacatgaat gagaaggtta 240

acaaagatga agtatggggc catcttggtc ggaaatccca gtctagagac acagatggtg 300

agcaaggaga tgatgtattc gatgaacacc tcgagtacga ggaaacagac aatccagagc 360

tagatgtcga gcctgtctac agcaaggatg 390

<210> 5137
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g02b1

<400> 5137

gttcgtactc tcaagcaggt ggctgctgca gctaagcaag tttacgacca agtcctatta 60

tgtgagactg aaaacagctg cccaggttgt cgtccttcct tccgccattg acggtgtaat 120

cagtgagcaa atgttcatga atggtgcttg tctacacagc gcaatctttc tgtaaagcaa 180

acatctatag ttcctgtcca tttgtgtctg caactaaatg gggtggatat tcatttgctc 240

catgtaataa tggcttgtag actacataca tggctgtgga gcaattgtcc tgatccatgt 300

cacaatattt gccctgat 318

<210> 5138
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g03b1

<400> 5138

aaagctggtg cgcctgctgg tgccgctccg ccataactgc cgggtcccac gcctcctttt 60

acgcactcga atacgcgtaa cactgcaacc aaaccctgag tgtgaaagct gtctaatccc 120

aacacgtgct tgtccagatc gaacagacct gcaggtgatt ccacgcggta gcgcctgcga 180

ccccaaatca actaacctct gggacccctt tttctgctac cacttgggct cctgcggcgg 240

caccggcctc tttccctaaa tacagtgcat cacgcttccg gaccgaaaga aaaaaccaac 300

gcgcggaccg actggaagga aacacctaac gttcacgt 338

<210> 5139
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g04b1

<400> 5139

ttcacgcgtc cggccacgcg tccgaaagca tccatccgct gagttggaga gcttgctaat 60

cgcagttcgt cctcgcccaa atcgagcagc catgtcgctg attccccgcg gcaacgcctt 120

cgacccctttc tcccctgacc tctgggaccc cttcgacggc ttacccttcg gctccggcgg 180

cagcagcagc ctcttccccct cgttcccgcg catcagctgc gagaccgcgg ccttcgccgg 240

cgcgcggatc gactggaagg agacgcccga ggcgcacgtg ttcaaggcgg acgtgccggg 300

gctgaagaag gaggaagtga aggtggaggt ggaggacggc aacgtgctcc agatcagcgg 360

cgagcggaac atggagcagg aggagaagac tgacacctgg caccgtgtgg agcgcagcag 420

cggcaagttc ctgcgccggt tcaggctcct cgaggacgcc aaggc 465

<210> 5140
<211> 481
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316057g05b1

<400> 5140

cgcaaatcct aggctaggcc accggcgccc gagatggcgg cggccttggc ggcgggcgtc 60

ggcgtgctgc tgccgttccc gttctactgg gcgctgtgga cgcgcccgca gcggtgggtg 120

gacctgtgcg gccggggcgc cgacccgtgc cgccgcatgg cgcaggtctc ccacgtcctc 180

aaggcgctcc agctcctcgc cctcgcctcc gtcgcctgct tctgctggcc ccctcctctc 240

tgcgccctcc ccctactcgc cttcggccag tacctcaact tcaaggtgta ccagctgctg 300

ggcgagtcgg gtacctacta tggcgtccgg ttcgggaaga agatcccgtg ggtgacggag 360

ttcccctttg gctacatcaa ggacccgcag tatgtgggga gcatcctgag cctcgtggcg 420

ctgctgtgct gggttccctt ccagtatatt gtgtngtggt gcctcngata tgttttcatg 480

a 481

<210> 5141
<211> 160
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g08b1

<400> 5141

tttgctatct ccattgttgc gaaaactcca acagagtcgg gatcatgaat gtaatttctt 60

acaactcgat taatgtttgt tccagaataa gttgattgca gcagcagcat gtagccatga 120

atcggatggt taaacaatgt tatggcatgc atatttcttc 160

<210> 5142
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g11b1

<400> 5142

gtgggtctct ctctcgcggc ggcgcaggcg tctctctcct tctcctccgg cggcgccaag 60

gcattttggc atctgagccc aacagctagc agatggcagg cggcagagtt gcacatgcga 120

ccctcaaggg gccgagcgtg gtgaaggaga tcttcattgg actcaccctt gggctcgttg 180

ctggtggtat gtggaagatg catcactgga acgagcagag gaagacgcga tccttctacg 240

acatgcttga gaaggggcag atcagcgtcg ttgtcgagga gtagttctga agtgctgaac 300

cagaagttct acatctcgaa gtcttttgtc attttggttt tgccagtaat ttctgaaact 360

ctctggagag catgacagag tgattgctgt ggagattgtc atgaaaataa gcacaccacc 420

atttgagaac atcgaaccat tttg 444

<210> 5143
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g12b1

<400> 5143

tgggtgacca ccgctcttcc ggcgcggcag gcgactatgt tctactcatc accggtggtg 60

ctggtggctg gccctgtgga gccaacatct ggccaacggg aggcatcatg gtcctacatg 120

ccaacctcaa gggtgcggac gtggtcatgg cgaacgataa agtgctcgcc cttctgctgt 180

cggttggtga acagctgaac acgcatgact ggcacacgca ggacgaagga acaactgttc 240

tctcacatgg ctagagactg ggcgaggaca cttgatgaca cgaggactaa gcttggactg 300

ctcgccataa acatccatct ggctgggaaa acccagtcgg gactccaaca gaaacgtctt 360

gcactacatg cagagcatga cagatg 386

<210> 5144
<211> 228
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h01b1

<400> 5144

tcggttgaat cgagaagctc atggcatgct atcgatgtgc ttcagtcaat atctcgttgg 60

cgtctgttgg aattactctc aaattgcttg cctgacagat ttacccattc gaacgaaact 120

aatctttgtg ctcttgaaag catgaaggag gatattgtaa ctggaattgc accacacttt 180

attaggccga tctataggtg gccgatcttt gccttctagg gaggagcc 228

<210> 5145
<211> 126
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h03b1

<400> 5145

gttaccacgc gtgcgcccac gcgtccggtg attgcgaggg ggacaaaacg ggatgtgtta 60

tcagttacat aaatgtgagg tgcacgcttg ctctgagtaa aagatgaggt ctttctctgc 120

agttgt 126

<210> 5146
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h05b1

<400> 5146

tttttcacac cgggacttcg acagcggacc tggccttgct ctaggactca cactccgatc 60

tgcgggcatg gccgcggagc gccctggttt cgctgcagcc agacggctgg cactgtccag 120

gcttctacta ctgggcgacg ggctactcgc ggcctgatcg tcggttagcg ccccttcggtt 180

cgatctgggg tccggccaca cgaagtgcat ctccgacgag atcaagggtg gctctatgga 240

ccacgggaag tacagttgag ggcgaacgcg acccccccta ccccgtcgca cagctacccg 300

aggcgcaccg tgtattcctc aaggggggcgt tctcttacgg gaacagaatg cactactgcg 360

agaacgtgca ttcggcgtac ttttgc 386

<210> 5147
<211> 255
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h07b1

<400> 5147

gtgtccacgc gtacggtcgg tggtcatttg gaggctggag actgaaccct tcctgttcat 60

tgattgcgag tactgtcact atgtaatcgc aatacgtttc ggttcgagaa ctgtgttgca 120

aattctccca tctgcggact atagtctgtt tatgaccccc atttcatggt tatatgtttc 180

actgtttctt gcttgaccac gatcgtagcc tgcaaggggg gacgaaagaa atgacttcatg 240

ctaaggaaca acatg 255

<210> 5148
<211> 170
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h08b1

<400> 5148

ttttccacgc gtacgcccac gcgtccggtg attgcgtggg ggacaaaaag ggatgtatta 60

ttagttgcat aaatgttacg tgcacgcttg ctctggataa aagatgagtt ctgtgtctac 120

agtgctgcta tatgtagact atagtcagga tagaagaact aattgatggc 170

<210> 5149
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h10b1

<400> 5149

agctgttttt acaccagaag tcagccgcca gagagggcga cgatctacca cacccagtcg 60

atgctgcgga ctggcccggg ggagctgtgg ttgcccaact gccggacggc atggcccctg 120

caggccacct gtgtatcatc tgccgagtgc acgaggaaca gactgaactg cccgcccgcc 180

cccggtcgcc gtcaggtcaa cggacacctc ctgttggccg gacatggacg atgaagaaac 240

tgggggctgc ggcagcacaa gctggagagg agcctgttga cgctaggc 288

<210> 5150
<211> 466
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h12b1

<400> 5150

tttggaggtt gacatggtaa tggtaccggc tacaactggc ctgatgggta ttttgccagg 60

ccatgtttcc acaattgcag agctcaagcc tggtgttatg tctgtacacg agggaaatga 120

tgttacaaag tactttgtga gcagtggctt tgcattcatc catgcaaact ccattactga 180

tgttgtggct gttgaggctg tccccccttga tcagattgac caaagcttgg tccagaaagg 240

tcttgctgaa ttcactgcca agcttggatc agcctcgact gacctagaga aggcggaagc 300

tcatatcgga gtggatgttc acagtgcgct caatgctgca ttgactggtt gatgatgaca 360

tcttacattt ttatgtcctt ttcatccgca tctttagaat gtgagttgaa gtccgcaaac 420

tcatgaatga ggatggatgg aattatctta ataaaattat actcca 466

<210> 5151
<211> 486
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061a01b1

<400> 5151

ctcgcgttat tcttgcatgg tttgttgctc cacacgttgt caagagagcg gctgcgatcc 60

ttcttcacat gcttctggga ggcctttgct cgttgacgat gataatctcg ctgagatttg 120

acttcccaag aatccagttt gggtcgatgc gatactgggg gatcctgctc gtgtcctggt 180

tcctcgtgtt tggagtgcgg gcctcgcgaa cccgcaccat ccgccgtaat tcatgatgat 240

tacatcgagt gtgccctcag tcaggcgtta tgaggattta ggaccgnggc gtccaagggt 300

cgcgtccacc acagagttag gtattgcacc cctgtgtata ttcgccgcta gctataccat 360

ggacgtgcta ttttttttag ctggagtatg tgagacgtac atgtttggcc aagacgacat 420

ggctagagta ctgctactgt tcagtgttgc taaacgaata cagtgatgtc tatctttagc 480

attttt 486

<210> 5152
<211> 521
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061a02b1

<400> 5152

ctctcccacg cgtccggcga gtgggagtcc ggccatggcg ccgtcgcagc ccaagtcagg 60

gctcttcgag ggcatcaaca agggccacgt cgtcaccaag cgcgagctgc cgcctcgccc 120

gtccgaccgc aaggggaaag gtacaaagag ggtgcatttt gtcaggaact tgatcaggga 180

ggttgctgga tttgctccct atgagaagcg tatcactgag cttcttaagg ttggaaagga 240

caagcgtgca ctcaaggtcg ccaagagaaa gcttggtact cacaagagag caaagaagaa 300

gagagaggag atgtcaagtg tccttaggaa gatgaggtct gctggtggcg gtgctggtga 360

caagacgaaa tagaacttgg ctagctggtg aattttatcc ggcagcaaag tcctgtatta 420

ccagtccgta cctatagagc tatggccatt gtgttgacac tatctttagc ccgtggtttc 480

tattttgaga agaccaatcc tcctaagatg tttatacatg a 521

<210> 5153
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061a03b1

<400> 5153

tgttgggggc ggcccgcgca tcggaggcga atcagcgttt gaaccaagcc ggcgccgcca 60

ccatgggtat ctcgcgtgac tccatgcaca agcgccgggc caccgacggg aagcacacgg 120

ctctgaggaa gaagcgaaag tatgagctcg gccgccagcc aaccaacact aagctttcaa 180

gcaacatgac agcgaggagg gtccgtgttc gatgcggtac acgtgaagcg gagggctctc 240

cggcttgaca ctggtgactt gtatagggta gtgaggactc gacccagaag acccggccct 300

ggatgtggat acagttcgtc aaacaatgag cttgtgagga ctcaaaccct tgacaagaat 360

gccattgagc aagttgatgc tgacccctta agcagtggga cctgactcat tatggagtcg 420

aaatcggtag gcagaagaaa 440

<210> 5154
<211> 470
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061a05b1

<400> 5154

tctttgcagg gcttgtgaga acatccccat ggggctgtgt ggcaacaagg ttgatgtgaa 60

gaacaggcag gttaaggcca agcaggtgac attccacagg aagaagaacc tccagtacta 120

tgaaatctct gccaagagca actacaacta tgagaagccc ttactttacc ttgctaggaa 180

gctggctggt gatcccaaca tccacttggt cgaagcagtg gcccttaagc ctacggaagt 240

gaccttcgac ttggccatgc agcagcagca ctaggctgag cttgcggctg cagcggcaca 300

gccactgcct gatgacgatg acgatctgat cgagtagaga gaggaccatg agtctgtctt 360

atcaatcaat actttgagag ccagagacta tgcgagtcgg ttttaggttg aaggcttgat 420

tggagtagtc aaccggatgt tttcctgtct gcttgcttgt ctgtgggctg 470

<210> 5155
<211> 523
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061a06b1

<400> 5155

tttgtgcagg gtttgtgaga acatccccat tgtgctgtgt ggcaacaagg ttgatgtgaa 60

gaacaggcag gttaaggcca agcaggtgac attccacagg aagaagaacc tccagtacta 120

tgaaatctct gccaagagca actacaactt tgagaagccc ttcctttacc ttgctaggaa 180

gctggctggt gatcccaaca tccacttcgt cgaagcagtg gcccttaagc ctccggaagt 240

gaccttcgac ttggccatgc agcaacagca cgaggctgag cttgcggctg cagcggcaca 300

gccactgcct gatgacgatg acgatctgtt cgagtagaga gaggatcatg agtctgtctt 360

ataatcaata ctttgagagc cagagactat gcgagtcggt tttaggttga aggcttgatt 420

ggagtagtca accggatgtt ttcctgtctg cttgcctgtc tggtggctgc aactgttgtg 480

gacatgatct acatatgtgc tgcatgattg tgtcgcacct gat 523

<210> 5156
<211> 274
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061a08b1

<400> 5156

tctcggtgac tataaaagaa acaacaaaaa catagtaaaa tgtataaaat tacgcagctt 60

tccccccacc actggtgggg ggttttggag ctgacccctt aggaaaacaa ttcttcgatt 120

gtttgctaga tacgttatga gacggacctg tttaaggggc cgttccattt ctgaagctaa 180

caaactttaa gtcgttgatt tgcctgcgat ttgaagacgt cgtagctgca tctgctctgg 240

ttattcccag tgcatttgcg gctggtttta ttgc 274

<210> 5157
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061a09b1

<400> 5157

tttttgctca acctcgccgc cggagacctc aagaagttct accaggggcg gagcgggcgg 60

cggacggcga gcgtgaacgt gaaggggaac aaggtgccgc tgtacggcag cgggccgacg 120

ctgatggcgc agccggcggg gggcaagggc ggcgccggca aggtgatccc ggtgccgatg 180

gtgctgcgga cgacggtgcg gtcgcaggcg tacgtgctgg gggcgctggt gaagccccgg 240

ttcaccaagg aggtggagtg caaggtggtg atgaacccct acaagctcaa caagccccgtc 300

tcgctggaga aggcctgcaa atactcatga tttgctcact catgatccgt ccatggttgg 360

ttgat 365

<210> 5158
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061a12b1

<400> 5158

ccttttaagg atgacccccc tgcaggtacc gccgcggcgg tcctgggtgg acccccccccg 60

ctgtcgcgtg gcaaagtgcg gacatcccaa tagggctgtt gtgccgcaag gttggtggga 120

tatacacgcg atgtccagtc tggcaggtga cattgcacag gaagaagaac ctccagtcct 180

atgaaatctc tgccaagagc aagctacaac tttgagaagc ccttccttta ccttgctagg 240

aagctggctg ggggtcccaa catccacttg gtcgaagctt aggcccttaa gccctcgaga 300

agtgaccttc tacttgggca tgcaaaaac 329

<210> 5159
<211> 94
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061b01b1

<400> 5159

actctcgcgg acgcgtgggg caatacctgc tatgttctcc attgtgtatc cagacctctt 60

gtgttttatg tgaacttgtg tcctccctgg tgtt 94

<210> 5160
<211> 181
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061b02b1

<400> 5160

tgctctcgga cgcgtgggtt caaatgagaa ctttgaaggc cgaaaaggag acaggtaact 60

tgccatctga gatgccctta attcagtttg acaacgtggt gaactttctg aaactgctat 120

atatatgcta ccttgataaa tacaaaaaat aggactccaa aggcaatgta tggaaaaatt 180

g 181

<210> 5161
<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061b03b1

<400> 5161

tttcccgttc tggctggatg gtggccggag ctcgcggagg actcgagata tgcatgtggc 60

ggcaccgagc atgaggcaac aactgcatta cttgcgggga aggcgcaagt aggacacctg 120

cattacttgc aaacaaggcg caagtaagac actgaaatgt agtataattc ttcatctcaa 180

tatgtataac cttaacgggt ctgatcgtga caccaagcta ttgttccacg actgaccatt 240

ttcggcatgt attactgagt gttaacgaga atctcgttgg act 283

<210> 5162
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061b05b1

<400> 5162

tgtctcggac gcgtgggcgg acgcgtgggt tcggagctgg tgccgccact aatgctcgtc 60

gagatgcggc tggagatgga cgacggcgac ggcgaggttc aagtgtttgg ttgggaccag 120

ttgagggtgg agctagggga tgtagtaaga gcttggcata gctgtgaaga tttggaacaa 180

gttcagtaac tttcttattc agaagaagtt attttgcagc ttagctagtt aatggagagt 240

gtaaacaggt actctaaaat gtcaatatat gtgaatctaa cacgagggct aagcttggca 300

ctgggccggc ttttacaacc tttagaatgg 330

<210> 5163
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061b06b1

<400> 5163

actgcccacg cgtccgcgac gagcatgtcg acgtccgcgg gcgccacgcc tgttctgacg 60

aatagctcca cgatggcctc gtcgaagaag gcgtccatct cgtcgagcgc gtcccggtgg 120

gtgagcgagt cctcgcggca ctcgaggatg ctgcgcaggc cgtagctgtg ctctcgatgc 180

cggagcgcac gatgacgcgg aggaggaacc ggagctcggg aggccgaggt gcttgttgcg 240

caggatcacc tcgtcgtcgc tctggtggag ttcatacagc tcaacatcta cggctccatg 300

accacagaga gtcatcatct ctgctcatgg gcagccacgg gacatgcatc acgacgtgct 360

tcacaaggac cacgacggag tgagcggagt ctgaatcagc aatgtaagca gcgaagagcc 420

agctccctgt ta 432

<210> 5164
<211> 475
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061b07b1

<400> 5164

ttttcggtgg ccaccgagcg aaccctagcc gagattagac taccatcccc aatctagcgg 60

aggaggacga ggacgacgcc gacgagatgc tgagggttgc ggggaggagg ctctcgtctt 120

cgctctcctg gcgccccgtg gcgaccgtcg gagccagggg cccgctcgcc ggcgccggcg 180

gccctgggag agacgacgac gacggttcgg cctaccagcg gcggttcgcc atcgagtccc 240

ccttcttcac cgccgcgaga gggctcttct tcggctgaaa cacttgttcc acggaaccaa 300

gatgcttggg ttggctgaac tcccagccac ttgntgctgc actgaaagaa ccccaactca 360

aaaatcctnt atgaccagta caaccatgaa agatatcctc ctggagatcc cagcagcgtg 420

cctatgccta ctctgtctga gtggtggaga ttcgtatatg catcactgct gcgtc 475

<210> 5165
<211> 491
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061b08b1

<400> 5165

ttttcggaag gctttcttta atcgaattac ttggacgacg gcaactctac caggcccttt 60

aagttcattt tctgttactc catctttctt ttccgttcca tattcttcaa taccatttgg 120

tgccacatcc gttgttaatt caatagatag gactccagtg gcatttttgg caaaattgtt 180

tagatattgg agggggtcaa ttgaagtgac tattaaagtt gtgaagacag aatttcatac 240

tggtagactt attttgtcct tttcgcccca attagctcag actactatta caaattctaa 300

tacaaactat gttcatcgtg agatagtcga tctacgtgat ggctctgagt ttgtgattaa 360

agtgccttat tgctacaact ctatgtacat ggatactgac caagctcaaa atgatttatt 420

catgatgatg caggtcaatg tattaaatga atnggtagct ccagacactt gcgcaccaag 480

cgtagaaatt t 491

<210> 5166
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061b12b1

<400> 5166

ccgggttgcc ccacgcgtat tgggaccccc accggaccag cgcgaggggg ggccatttag 60

aaacaattgc cgttactacc gccggcagga cggcctgagg agagaaggcg accacagcgg 120

gaagcacggc ccggcggggg agcgagtgct ctggggaggc gaggatgacg agcgaggaac 180

agctgggctc gcgacgccgg aggggaggac aacacgaagg aggaagcgga gctcgggagg 240

ccaaggagga agtggcgcat gatcacggta gagctgatag aggaggagga agacaccagg 300

acaaagactg gtacaggacc acagagaaga acaacctgac ggcaaggaca gccacggac 360

<210> 5167
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061c02b1

<400> 5167

tgttggggat ttgcgatcgg taatggtctc acagatccag caatccaata caaggcctac 60

acagactatg cattggacat gaaccttatt cagaaagctg actatgaaag gatcaacaaa 120

ttcatcccac catgtgaatt tgcaatcaaa ctttgtggta cagatgggaa agcatcttgc 180

atggcagcat atatggtctg caattccatc ttcaactcta tcatgaagct tgttggtacc 240

aagaattatt acgacgttag gaaggagtgc gaagggaaac tctgctacga cttctcaaac 300

ttggagaagt tcttcggtga taaagcagtc agacaggcaa ttggagtagg tgacattgaa 360

ttcgtctcat gcagcacttc ggtttatcaa gcaatgctca cagactggat gaggaacttg 420

gaagtccgca tcccagctct acttga 446

<210> 5168
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061c03b1

<400> 5168

tttgaggaat taagccccaa gagttggagg cgatgtcgtg gtggaggtcc aagccgcact 60

tcagcgccga cagccaggac tcgagctcca acgacgcgta ccgcggaggc aaggaccgct 120

cgccgtcgcg tcgcaagaag tccgacgacg acgaggagga gtaccgccca tacgcaggct 180

acggcgccaa caccaaccgc ggcggggcca acgaaggcgg tggcggcggc ggcggctaca 240

acggtggtta cggcggcggg ggcggcggct acaacaacgg ctacggcggc ggtggctcgt 300

acagcaacgg caacggcggt atcacgccct acaacggcgg cggcggtggc tacaaagcaa 360

ctctttctac ggaacagcgg tggtgggtac aacaac 396

<210> 5169
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061c04b1

<400> 5169

atcgctctcg tcgtgtcttg gtcaatgtgt gttctctctc gcgaaaataa acagaaataa 60

aaacaaaaaa aaaggagaaa gcctgcagct ttccgactgg gaaaaccctg gaagaacaca 120

agaaaatacc cttgaaaaga aataacacta caaacaaata ataacagggg gggggggccc 180

tttggggtcc caggtttccg ccccggggct ggcccgaccg tggtttttt ttggggcccc 240

caaattccat tacacgggcc gggtttttcc acctccgggc cggggaaccc ctggggttgc 300

cccactttaa tcgcctggga gaaaatcccc ttttccccgg ttggggtatt gcagaggggg 360

ccggcccggt tggcccttcc taagagtggg c 391

<210> 5170
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061c05b1

<400> 5170

tctcgcgagc gccgcccttt ttttttttt ttaaccaaaa aataccaaga aatttcaaga 60

aaaaaataag gagggaaaca aacaggctga tgcaattcgc attcccgttc cgtctctggt 120

ttacggccac ataaataata acactactac tagtactact tgagaactct ggttgttctt 180

ctttatccta cgctgatgtt gtacagcagc cccatcagag caagccaatc tgtctagaga 240

ctagctcaat cgagcggctc gatcagtagc tccagagcgg gacctcgccg gcgcccgtacc 300

caccgctgtc gttgcaatcg tggtcggctc cgtccatgtg cgag 344

<210> 5171
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061c06b1

<400> 5171

tttcgcgagc gccgcccttt ttttttttt ttaaccaaaa aataccaaga aatttcaaga 60

aaaaaataag gagggaaaca aacaggctga tgcaattcgc attcccgttc cctctctgct 120

ttacggccac ataaataata acactactac tagtactact tgagaactct gcttcttctt 180

ctttatccta cgctgatgtt gtacagcagc cccatcggag caagccaatc gggctagaga 240

ctagctcaat cgagcggctc gatcagtagc tccagagcgg gacctcgccg gcgccgtacc 300

accgctgtcg ttgcagtcgt cgtcggctcc gtccatgtgc gagccgctct gccagtcgcc 360

gccggcggcg ctcatcccgt cgtagtagta ggaatcctgg tccaagtccc caatgccgcc 420

gtacccgtac tgcatcgggt agtcgtcgta gtgca 455

<210> 5172
<211> 197
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061c09b1

<400> 5172

ttctcgcgga cgcgtgggcg gacgcgtggg attagatctt ctttaccctg ttgctcgcca 60

gaaatgacat tgtcctattg ccgcagtaat tttgatgcca tgcccacagg gtttgtgaac 120

ctgcctagtt tgattgtcaa gggatgtatg tgttactttc aaaaaaaaaa atacaaaagc 180

taccanncca acaccaa 197

<210> 5173
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061c11b1

<400> 5173

tcgcccacgc gtccgggctg cctggttgag agaatccggc accatcaaca cgatactcgt 60

cagcgacgag cgtgcgcagc gtgcaagccc atccaatctg gtgccgaggc tggaggcgct 120

gcagttgtag cccgtaaagc accgcatacc ctgtagcagc cttgtctgta agctctcccc 180

cgcctctcct tagtttgtct tctgcctttc agaagactgt gtggtgtatt ataggctcgc 240

cgaataggag cttgttttgt tgttgaatcc tgttgttaat tggcagtgtg cctttcaagt 300

tccaactcct ctcatcaagg 320

<210> 5174
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061c12b1

<400> 5174

tgctctcggg actatcccga caggccaccg actgttaggt ttcactcaag aatcaacatg 60

acctgtgtga atgccgagac tggattggtg gaccaaagga agtttagcct gctgtccaac 120

tggcgccgtg agtacacaat ggagaacatc ttgatacagc ttaagaaaga gatggcgaca 180

tcacacaacc ggaaactagt gcagcctccg gaggggacct tctactgaag gagcacttgc 240

cgtgtcgcac gtgtcattcc caagaaccct cgcggttccc attttagata tcgcataaga 300

tcgcaacatt tggtgcaaac gattatgtat aactttgacg gtgtccttca catggctctt 360

gtgtgtctag tctcgttata tctgctgggt acgcctgtgt tgtaatgata cgctggagct 420

tagctattgt ttctaaagta ccattacgtt gctt 454

<210> 5175
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d01b1

<400> 5175

ctcgctgccc accggcgcta cgaaagggtg agggaagctt taaacagtca acgcggatgc 60

tccaaaaagc aggccgcgct aggtgcggat ccttacaacg gaggtaaata tggccacaaa 120

gagaacttgg ggtgtccctg ggggggtcca cgattaagga cgtcctgctt gcccacctac 180

acttgttgtt tgagcacctt aaccccgatt gcaggctgtc ggttacccaa gacgaactgg 240

gggaaccccg ggggagaacc cacagaatag cttgtggaca caaggcctat tatcgcgact 300

ggcgataaat ctaaaaggc 319

<210> 5176
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d02b1

<400> 5176

ctcggtgtta tctgagactt gaggctgtgg cggctattgt tctgcttccg cgtggtcgga 60

gttattccgt gcgagttgca acattcgtgg tcgcggatca agggttatga tgtctcacga 120

ctacgtatat tattagtttg gtggtcaaac aagcagaaaa aaaaagaaag caaactaaca 180

tggaataaaa gacataataa agctcgagtc aaaacaccta tggaccaatt aaaggcattg 240

cgcaatgcct gacccgtctg tacaacatga tggccgaaac tagcacacgc cttacca 297

<210> 5177
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d03b1

<400> 5177

ctcgctgtcc gcccgtcttg gtcaatgtgt tttctctctc gagaaaataa aaaaaataac 60

aaaaaaaaaa aaaccaaaaa aaaaaaaaag gggcggccgt taaaaggaac acaagcttcc 120

aaccccgggc atgcaacaaa ataactttat aatagagaaa ccaaaattgg gtcccctgcc 180

cagaattacc caacttccct aacctggaaa aaccctggca ttacccactt aaagggcctg 240

caaaaaaata ccctttggc cagttgtcaa aaaagcaaaa aggggaaaa 289

<210> 5178
<211> 400
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061d04b1

<400> 5178

ttgaacaata tgcaaagcaa actgcttaat gcgccattgc ctggctgtac tggaagtgtc 60

cgcgagatcc aaatagatac gacgacggga aggaggctcg tgaagaagga gaagattcag 120

gtctcaggtg agatcgatgg ttaagatggc tcgcaacacg attatatctg ggaatttaga 180

attgtagttt accctgctgc tttcttttct tttttgtggg tagatctgat gtctcttacat 240

ataatagata ccgagtgtat gctgctggtt ctttccattc ttttgggttc gtgggtgcca 300

tgtaaatgtt ggcggattcc ttatgtttat gccttctgcg gtaaataaaa agctaatgca 360

gattcgtggt caaattacaa aattncctta taaccaaaaa 400

<210> 5179
<211> 162
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d06b1

<400> 5179

caccaccatc tcctaatcac aagagatctt ttttacacgg ttagagaaag tgaggacgag 60

agatcagcag ctgctcgagt agctcgcgtg gaggtgtcca aggtgggaga cccaagccca 120

ggctagctag ccgaccaact gctccaccgg agccgatggc tg 162

<210> 5180
<211> 202
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d07b1

<400> 5180

cctcgatcga gctgcgttgg ctgactcgcg cgagcctcgg tgaactggtt ggcactaata 60

agcatgtcac gctaggtgtg gtgggctcgt gggtcttgaa atgtgttgtc aagatcactt 120

gctttcgtgt tggggcgtgg tccttgacag tgtattactc ttgctgtctt acatggcatg 180

ttttacatga ttctgttcgt gt 202

<210> 5181
<211> 532

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d08b1

<400> 5181

ttttcgctcc cccgccgccg ccgccgctcc actcccccgc accgtcgtct ccaggtaagg 60

agggcgagat ggtgaagcac aacaacgtca tccccaacgg ccacttcaag aagcactggc 120

agaactatgt caagacgtgg ttcaaccagc ccgcccgcaa gcagaggcgc cgcatcgctc 180

gccagaagaa ggctgtgaag atcttccctc gccccacctc tggacctctt cgccccattg 240

tgcaatgcca gacccgcaag tacaacatga aggccagggc tggcagaggc tttacccttg 300

aggagcttaa gtccgctggc atcccaaaga agctcgctcc taccattggc atttctgtgg 360

accatcgccg caggaacagg tcgcttgagg gtatgcagtc caatatccag aggcttaaga 420

cctacaaggc caagcttgtt atcttccaag gcgtgctcgc aaggtcaagg ctggtgactc 480

tccctcggag gagcttgccc acgcccacag gtccagggcg actacatgcc ca 532

<210> 5182
<211> 186
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d09b1

<400> 5182

ggccgccctt ttttttttt ttttttata catattaata atagcacata tgctacggac 60

atgggatatg gatggaggtg tatactacat ccaccgaact aatcgacgct ttacaacggt 120

ttgactggga aaacggagtc tttaccgaag ataaaaaaat cttgcaggac atgccccttg 180

tcaaca 186

<210> 5183
<211> 448
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061d11b1

<400> 5183

tttctcgcac caccatctcc taatcacaag tcatcttgca tacacggaga gagaaagaga 60

ggacgagaga tcagcagctg ctcgagtagc tcgcgtggag gtgtccaagg tgggagaccc 120

aagcccaggc tagctagccg accaactgct ccaccggagc cgatggctgg cgccgacgtc 180

gacgtcggga cggagctcaa gctcgggctg cccgggggcg gcgccgaggc ggccaaggcc 240

gggaagaggg gctatgagga caccattgac ttgaagctca cgcttcccac cggcggcatg 300

caggaagact ccgcaggcaa gccggagccg gccgccgaca aggccaagag gcccgcagag 360

gccgcggctg ccgaccccga gaagccacct gctcccaggc acangctgtg ggttggccac 420

tcagtccgtc gtaccgcagg acgccatg 448

<210> 5184
<211> 494
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061e02b1

<400> 5184

tgtctgggcg acgtccaccc aatcggagtg aggggctgct acgatgaggg taagcgtgtt 60

gctgagacac tgatgttcga ctaccacagg cagcatggca ttgagatccg tattgccagg 120

attttcaaca cctactgacc taggatgaac attgatgatg gccgtgttgt tagtaacttc 180

attgctcatg ccattcgagg tgaagcactg actgtccaga agcctgcaac acagactagg 240

agcttctgct acgtcgctga tatggacaat ggtcttatga agctgatgaa tggagacaac 300

accggaccca ttaacattgg gaacccaggt gaattcacca tgctggaact tgccgagaat 360

gtgaaggagt ttgatcaacc cacaagtgac agtgacgatg actgagaaca ctcctgatga 420

ccctcgacag aggaagcctg acatcaccaa ggccaangag gatctcgact gtgagcccaa 480

gtcgtcctgc gcga 494

<210> 5185
<211> 539
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061e03b1

<400> 5185

atctcccacg cgtccgccga ccccccccgat ctggttgaat ccgtccaatc caaggagcac 60

tcgcaatcgc accggcggcg gagatgggcg gcgaccatgg cggccacggc ccgagcggcg 120

gcgacttccg gcagaaggtg tggagcatga cgggcgggcc ctattgccgg cccgtccact 180

ggcgccgcaa caccgccatc gccatggtcg gcatctttct cgtctgcata cccatcgcca 240

tgaaatccgc cgagctcgag caacgcccgc accacccagt ccggccaatc ccatcccagc 300

tttggtgcaa gaactttggc aagaaggagt actgcaggat gtgccgacta tcacagagaa 360

agtcattctt ttacctttgt gccttctttt gtcataaccg gtcctcagcg atcgaagctg 420

gaagaagtac gcgaccatag cgttatgtaa ctctggtgac ttcttattat cacatacaag 480

gagtgcctgt ttgtttgcga tnaaataaac tcgcgatgca tgagcgcctc tatggatct 539

<210> 5186
<211> 463
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061e05b1

<400> 5186

atctgattcg ggcactggtt cttcttcgag gtgttctttt cagttggtga atattgcagc 60

ctttccactg ttgccaattg ttcggcatcc actagtggag tacacctgtt gcatccgatg 120

aacgctccag aggaattgtt ctgattttgt ttgccgtccc tgacctgagc tttgcaacga 180

tgcaggggat actaccgctg cacgcaccgc aaattccaag ggatgcgcgg cgacgaagca 240

ggtgcagcgc gccgacgagg acccggcgct cttcgacgtg atctaccacg gcgagcacac 300

ctgcgtccat aagacggtgg cgaccgcggc ggcggccatg gcgcagccgg cggaggagaa 360

cccggatgcg cgtaggcatc tgcagaacct gagcacgagc ctgacggtga acaccgaggg 420

actcacggcg acggcgggtc atcagggctg cggcaccacc acg 463

<210> 5187
<211> 522
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061e09b1

<400> 5187

tcccggcccc ccgacccgag gaaagaggaa gttagagcag agtccacacg gcagaggcca 60

aaggcgggag gaggggcggg atgccgatcc tgtacgcggt ggtggcgcgg ggcgccgacgg 120

tgctggcgga gcacagcgcg gcggcgacca acgcgggcgc cgtcgcgcgc caggtgctcg 180

agcgcctccc cggcggcggc gccgacagcc acgtctccta cacccaggac cgctacgtct 240

tccacgccaa gcgcaccgac ggcatcaccg ccctctgcat ggccgacgac gccgccggac 300

gacgtatccc atttgctttc cttgaggata tccatggaaa gtttgtcaag acatatggcc 360

gtgctgcact gacagctctt gcttatgcaa tgaatgacga attctcaagg gttctcagtc 420

agcaaatgga ttactattca aatgacccta gtgcagatca aatcaaccgt atgagaggcg 480

aaatcagtca ggtgaggagt gctatgatgg atatattgat aa 522

<210> 5188
<211> 292
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061e10b1

<400> 5188

ttttcgccca cgcgtccgcc cacgcgtccg cccacgcgtc cgcccacgcg tccgcccacg 60

cgtccgccca cgcgtccgca aagccaaagg ctacgtacgt ggatgggaag aaggaacgta 120

ctatggcgaa cctgtggctg tggagcattg ttgcgccaca tgttgtgttc taattaaccg 180

cccttctttt tgtggggatg tataccgtac ctaccgatta tgcatgcatg taaattacct 240

ttgtccacgt acaaggggag gaaccatgga ataaagaaag agcaacctga gt 292

<210> 5189
<211> 474
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061f01b1

<400> 5189

ctctgggcaa tgttaaccca attggagtca ggagctgcta cgatgagggt aagcgtgtag 60

ctgagacact gatgttcgac taccacaggc agcatggcat tgagatccgt attgccagga 120

ttttcaacac ctacggacct aggatgaaca ttgatgatgg ccgtgttgtt agtaacttca 180

ttgctcaggc cattcgtggt gaagcactga ctgtccagaa gcctggaaca cagactagga 240

gcttctgcta cgtcgctgat atggtcaatg gtcttatgaa gctgatgaat ggagacaaca 300

ccggacccat taacattggg aacccaggtg aattcaccat gctggaactt gccgagaatg 360

tgaagggagt tgatcaaccc agaagtgaca gtgacgatga ctgagaacac tcctgatgac 420

cctcgccaga ggaagcctga catcaccaan gccaangagg ttctcgactg ggag 474

<210> 5190
<211> 256
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061f02b1

<400> 5190

ctcggaacca tcgttctctg cattggtacc ggcggtgtct aggcactatt atgtagtggt 60

agcaagagag gatggttcag aacatcaacg gaaatgttgg agacaaagga gtgtggggag 120

gcggggacag cggctcaaag ccctctccatt ataatggggt ggggatttgt gtgtagttgc 180

agctagatga ttgcaaggaa gttcaaataa gagttctagt tctgaaaaaa aagaatgagt 240

tggttcggac tgataa 256

<210> 5191
<211> 134
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061f05b1

<400> 5191

tgttggccac gcgtccggaa acaaaaaaaa gagagagaac ttttaaaaaa attaaacaaa 60

aataccaaaa aatgaagcca acttgtgagc ttgtgcctgc acaaggggcg atcttgtatc 120

cgttgcgcgc tctt 134

<210> 5192
<211> 539
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061f07b1

<400> 5192

tgctatcgcc aagggtaagg ggtatgaagg cgttgtcact cgctggggtg tgacccgcct 60

tccccgcaag acccacaggg gtctccgaaa ggttgcctgt atcggtgcct ggcatcctgc 120

tagggtttcc tacactgttg ctcgtgctgg tcagaatggt taccaccacc gcacagagat 180

gaacaaaaag atttacaaga tgggcaagtc tggacaggag tctcacgagg cctgcactga 240

gtttgacagg actgagaagg acatcacccc gatgggtggc ttccctcact atgtggtggtg 300

aagggtgact acctcatgat caagggctgc tgtgtgggcc ccaagagaga gtggtgaccc 360

tccgccagtc cctgttaaag cagacgtcgc ggttggccct tgaggagatc aagctcaagt 420

tcatcgacac ctcatcaaag tttgggcatg gcccgttcca gaccaccgac gagaagcaga 480

agttctacgg ccagctcaag gcttaggccg cgacagatct tatcccatag tgttaccag 539

<210> 5193
<211> 490
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061f08b1

<400> 5193

tcgcaaaggt gctgtttttct atggccctcc tggctgtggt aaaaccttgt tggccaaggc 60

aattgcaaat gagtgccagg cgaacttcat cagtatcaag ggacctgagc tgcttaccat 120

gtggtttggt gagagtgagg ctaatgtgcg tgagatcttt gacaaggcta gggggtcagc 180

accatgtgtc ctcttctttg atgagcttga ctccattgct acccagagag gaagcagtgt 240

tggggatgct ggaggtgcag ctgatagagt gctgaaccag ctgctgactg agatggatgg 300

catgaacgcc aagaaaactg tcttcatcat tggtgctacc aacaggccgg acatcataga 360

ccctgccttg cttaggccag ggcgtcttga tcagcttatc tacataccgt ttgctgatgt 420

cgagtcgagg caccagatct tcaaagcctg cctcaagaag tctcctttgg ccaaagatat 480

tgatctgagt 490

<210> 5194
<211> 292

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061f09b1

<400> 5194

ttttcggcca cgcgtccgcc cacgcgtccg gccacgcgta cgcccacgcg tgcgcccacg 60

cgtccgccca cgcgtccgca aagccaaagg ctacgtacgt ggatgggaag aaggaacgta 120

ctatggcgaa cctgtggctg tggagcattg ttgcgccaca tgttgtgttc taattaaccg 180

cccttctttt tgtggggatg tataccgtac ctaccgatta tgcatgcatg taaattacct 240

ttgtccacgt acaaggggag gaaccatgga ataaagaaag agcaacctga gt 292

<210> 5195
<211> 354
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061f12b1

<400> 5195

tctcgggcct gagtgggctc catctggggg agcaaacatt gatgctcaaa gcatgtgtga 60

ctgagaacac atacagtcta tcttaactgg ctgctgggag acctgcgctg tgagcattca 120

ggaggagaat ttctacgtgt ctaggggget cgacggaggc ctccatacca gcttctgcca 180

agacgaagtt gcggacgaca cgggccgggg gtgcgaccaa gcgggtgatt ggtagcacgg 240

ggcccgtgct cgacggtaag gctttcttga tgagggtgat agtggaccac tgcatcgtgc 300

atggctacgc gatgggcggg aagaccacga tgacacccag cgtgtacccg atgg 354

<210> 5196
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g02b1

<400> 5196

gggcggaaaa tccgggggga gacacacgct cgggccggca gaggccagcc gaccctctgc 60

gggtctccca cactatctca gaccctcccc tccccaccag ccgactgaca gagggagtca 120

aacaaaggag catgtgcgag ggaaaagaat gctccaagga gcgcaatggg gggaccaagg 180

gggac 185

<210> 5197
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g05b1

<400> 5197

ctctcttcga gggagttgat ttctattcca ccatcaccag ggccaggttt gaggagctca 60

acatggacct cttcaggaag tgcatggagc cagtggagaa gtgcctgagg gatgccaaga 120

tggacaagag caccatccat gatgtcgtgc ttgttggtgg ttccaccaga atccccagag 180

ttcagcagct gttgcaggac ttcttcaacg ggaaggagct ctgcaagagc atcaaccctg 240

atgaagccgt tgcctacggt gctgccgtcc aggctgcaat cctcattggt gaggggaacg 300

aagaaggtgc aggaccttct cctccttgat gtcaccccac tgtctcttgg tcttgagact 360

gctggaggag tcatgactgt gctcatcacc cggaacacca ccatccccac caagaaggag 420

caggtcttct ccacctactc cgacaaccag cctggtgtgc tcatccaggt atctgagggt 480

gagaggac 488

<210> 5198
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g06b1

<400> 5198

tgtctcccac gcgtccgtac aaactaaaac agatagaaaa aaagaagaaa ataacaaact 60

taagcatgaa aaaaccaatg caacctacag ggtct 95

<210> 5199
<211> 266
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g07b1

<400> 5199

gcgtacgtgt gatggtgtga gagtattctt gaataacgag cgtctgatct gatggagtcg 60

agcaagggag cgtgtgcgtg tgatttgctt gctcgctctc cgcctatgct ctgcccatgg 120

tgtccttgtg tgtatgtgtg tgcgcatgtc tccctgtgat tgcttcatct atctgcacta 180

tggatggagt gatgaatatg taagaatgaa agatttacct ccaaagacaa ataggatgag 240

caacaacatg aactggttag gccagt 266

<210> 5200
<211> 189
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g08b1

<400> 5200

gcgtactttt gatgatgtca gagtatactt gcatcacgag cgtatgatct gatggagtca 60

cgcacgggtg cctgtgctag ggatttgcat gctccatatc cgcctatgct ctgcccaagg 120

tgtcctatgt gagactctgt gtgcgcatga ctgcctgtga ttgctaaatc tatttacagt 180

atagacggt 189

<210> 5201
<211> 440
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061g10b1

<400> 5201

tgttcgcccg ttcccgcgcc gcggcctgcc ggcctccgtg ctccggaccc tccccgtcgc 60

cgtctacggc ggcggcgcct cgcccaagac gcccggcggc caggggagga ggagcagccg 120

cgacgcgctc gagtgcgcgg tgtgcctctc ggaggtggcc gacggcgaga aggtgcggac 180

gctgcccaag tgcgaccacc gcttccacgt cgactgcatc gacatgtggt tccactccca 240

cgacacctgc ccgctctgcc gcgcccccgt cggcgccgac gcggacgagc ccgccgccga 300

ggggctcctc cgcgtgccgc gcgaggacca cgccacgncg gagttcccca tgttccccaa 360

caacgtnctc ttctggggca cccacgacga cgtcaccaac ggcgggctcg gagggatgcc 420

gccggcgccg gccccggcac 440

<210> 5202
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g12b1

<400> 5202

tgcttgtcgg ctcttagtgg gctcgatcag ggcaatcaaa caatgatcat caaggcatgt 60

gtgagtgaga aacaattatc catttgaatt ggctgaattg aacctgagct gcgtgcattc 120

ggaaggagaa tttatacgtg tctaggggge tcgacggagg cctacatacc agcttctgcc 180

aagacgagtt gaaggacgtc acgggccggg ggtgtgacta agcggatgaa aggtagcacg 240

cggccagtgc tagacggtaa ggctttttg atgagggtga atttgaacca ctgcatcgtg 300

catggacaac gcgatgggcg ggaagaccac gatgacaccc aagttattcc cgttggaggc 360

ctat 364

<210> 5203
<211> 184
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h06b1

<400> 5203

tgctcggtcc tgctctgatc caaactttta ctggtagatc aaagtgttca tgtgaacgtg 60

gcgaatatct gtgccattgt gacatacacc ttatctgaaa aggaaaaatt gcccttttc 120

ttcaacaaaa agacaaaaaa caaaaaaaaa attacccaac ataaacatct tgaaacacaa 180

aact 184

<210> 5204
<211> 348
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h07b1

<400> 5204

tccgggccac cgctgaaacc aacctctggt gcttgcttat gaagagtaca gatcctttgc 60

ggatatccag cccactcaga catagggcga cactcatgag gatctatcgc gcttagggtt 120

cctccatggt gcctatctga gtcatcggtt gatacagtag atattgtttt ggtaccagga 180

caggtgtggc aaacgaaagc tccaacctaa tctgcgcttg ttacaagatc gctagattat 240

atatcttgca gcacagtcga ataggctgag cggcaacacg aactggttag gcccctgaaa 300

ccctttgttt aagtgatata ttgaaagtat gtggacattc tgcatgac 348

<210> 5205
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h08b1

<400> 5205

agctactgcg tcaaccaacc tctggtgcat gaatttgaag agtacagacg atgtgcagta 60

tttcagctga cgcagaggga gggagacact catgaatctc tatcccggag aggtatgctc 120

caaggtgcct atctgcgtcc ttggtggatg cagttgatat tcttttggtg ccaggacaac 180

tgtgtcaagc gaaatctata tccgagtctg agttcattgc aggatcgcta tcttatatat 240

cttatagcac cgtcggatag gactagcagc accgagactg gttaggccgc tagaaccatc 300

tgtataggtg atatattgaa agtatggagg cattctgcat gcac 344

<210> 5206
<211> 379
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h09b1

<400> 5206

tgttcgcgcc gcagcagaaa agcatcggct gtggtctcgt cgagggatca acaaccatgg 60

gcggtggcaa cgcgcagaag tccaagatgg cgcgggcgag gaacctcgtg aagctgaagg 120

gcggccaggg gagccagctc gaggcctaca agaaggccat gaacattcag tgcaagatat 180

gcatgctgac tttcatctgc accacctctg aagcatagtg caaggagcac tccaaggcta 240

agcatcctaa gagcgacctc gtacagtgct ttccccacct caagccgtga tatctgccag 300

atcggactgt gagagagata aaagagagag agagaagctg ccgtaatcca cctagtatta 360

tcatgttccg caatgactg 379

<210> 5207
<211> 388
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061h10b1

<400> 5207

tttcgcccgt tcccgcgccg cggcctgccg ggctccgtgc tccggaccct ccccgttgcc 60

gtctacggcg gcggcgcctc gcccaagacg cccggcggcc agcggaggag gagcagccgc 120

gacgcgctcg agtgcgctgt gggcctctag gaggtggccg acggcgagaa ggtgcggacg 180

cttgccaagt gcgaccaccg cttccacgga agctgcatcg acgtgtggct ccactgccac 240

gacacctgac cgctctgtcg cgccccctc ggcgccgacc cggacgagcc cgccgcccag 300

gggctccgcc gagagccgcg cgaggaccac gccacgcccg agttacccat gtagcccatc 360

aacgtnctgt tctgggtgac ccacgacg 388

<210> 5208
<211> 484
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061h11b1

<400> 5208

tgttcgggga gcatcaagat cggcaaatga tggtgagttt gctattattg gtgggacagg 60

tgacttcgca atggcacgtg gtatcctaac gaaacgacta gttgtggacg tagctggtag 120

taaaatattc gagcttactg tggatggatt ttgccacatg aacattccgg tccctgcacc 180

tacgaagatg ggaccgtggg gtgcaaagga tgccccctt cgtgaaatgg aaagaaaatc 240

ccaacgtcta gaggagtgtc acaatatact ttacagcgta ataagtgcga ttcagtttta 300

ctacattgnt gaagacgggc gaatctgcaa ctcatggtct tggggtacta ctggatgtac 360

taattcacnc tgtactattg aaacattaag ttatgcccaa tgagtttgta gagcagataa 420

ctggcacagt tggtgaccca gactatttgt ctcaccttaa gattgtcaca cacattaaaa 480

cgta 484

<210> 5209
<211> 490
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h12b1

<400> 5209

ttctcgagcc tctcaagaag tgacacggga gaggagcagg gcggcgcaag ccatggccat 60

ggcggagcag cggatcgagc acagccacct cgacatcaga ggcctgaacc tccacgtagc 120

gcaagcaggc acaggccagc tcgggacggt gctgatcctg cacggcttcc cggagatatg 180

gtactcgtgg cgccaccaga tgctggccgt ggccgccgcc gggtaccgtg ccatcgcgcc 240

ggactggcgg aggtatggac tatacgacca gccaccggag ccagaggcgg tggcgtacag 300

cgacctgaca gaggatctcc tagccctact ggatgcgctc tccgtcctca aggcttacct 360

agtggcaaag gattttggag ccatgctagc ttatgattct gctctttgtc accccagccg 420

cacatgcggt gttatgtgcc taggcatccc ttctctccac agtggctcct ccttcactgc 480

catgcccgag 490

<210> 5210
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072a02b1

<400> 5210

cttacgcgtc cgctcttcct ccggtacgac tccttcgacg tccaggtcgg ctcctcgccg 60

ctggggtcgt cggtcaccat cacctcgctc aagaaggcca ccttctgagg catcgccacg 120

tgtacttagt ttttcctctg cttttctcga tcgatgccag tactacacta tgcatgtgat 180

acacttgcat ggagtgatga ggatttgtgt aacaaaattt tcttttccta gtaaagatga 240

gaccggtttt tcccagggac cctcggtgta ttgggatgtt tttgccaatt tgtcagtgag 300

atgaaagggg acatgtactt ctactacctt actgatcaag ctggttatcc accgtgggtt 360

g 361

<210> 5211
<211> 506
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316072a04b1

<400> 5211

atctggttgg gttgccttgg gagttttagt aggcagatgt actgaagtct gacgagggtg 60

gcccaaagta aagcgaagcc accaagtgac agtcatatat catcaccaac aggattgttg 120

attacaatat tacatggagg tctctggaag gagcagttct gtttcaccat caggctacaa 180

atgcagcatg ctttctgatt gacagatcaa gtagtggcaa cctaagtatc gttggtggga 240

actgtcgaga gtcaggagct tctctccgtt aactatcagc tgacggcttg aagatttgaa 300

ggatatcaga ctctggtatt aacttgcttg agttgcaggc acacatcttt cttcattctg 360

ctgcttgtca tcagcgctgt actaccatca cagataccta ccacctgaag agttggcactt 420

gtagtgttga gatgacaggc accaaactag caatactttt ataatngaat atatagataa 480

aatctgattc cctggcaggc attgtt 506

<210> 5212
<211> 543
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072a05b1

<400> 5212

gtgaatcaca gattcaagta tagtggtctt ctctttggga gccaacaatc ctagcaatgg 60

ctgacgctag acttgcccta gcctccctct ttgtctccat tctgatgctt tccatggccc 120

atcccttctt tgcatgtccc actcgttgtg aaagtgagat aaaaatgcag atgtatttgc 180

accaggtggt gtccggacca acccataacc aagaagttgt gtttaagtct actcccacta 240

tagagtttgg taggacggtt gcttttgatt atactctact tgatgcacct acaccggacg 300

ccaaaattat tggtcgtgcc aaaggaaccc atgtccaggc tgaccaggtc aatgctggag 360

atttctccca tttcagtatg atattccagc agggacggtt tactggttca acatttcaag 420

ttatggggat gactccttca aatggaggtt gggcaattgt tggcgggacc aatgaactag 480

cgatggcaca aggtatcatt cagtttgcaa tagtcaaagg gacttccaac gtggagagct 540

tta 543

<210> 5213
<211> 266
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072a07b1

<400> 5213

tcgtctatgc gtccgctctt cctccggtac gactccttcg acgttcaggt cggttcctcg 60

ccgctggggt cgtccgtcac cattaccttg ctcaagatgg ccaccttctg aggcatcgcc 120

acgtgtactt aagttttcct ctgctttttc tcgatcgatg cccgtactac actatgcact 180

gtgatacact tgcatggagt gatgaggatt tttcgttcaa attttccctt ttctagacaa 240

gatgagaccg gtttctctcc atggtc 266

<210> 5214
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072a08b1

<400> 5214

tttgatggta tcttcagatg cgttggaact aacggacctc ctccattgcg agataactat 60

atggtcaaaa cctttggatg cttcaagtgg acaagggtca tgtgacatca aaatcaatga 120

tgatttctgc gcagctacta tagtacctct ttcgctacag aacggtgtcc tcaggacaaa 180

ctgcatagac tgcttagacc gcacaaatgt ggcacagctt gcatacggat tagctgcttt 240

agggcgtcaa cttcatgtgt tgaagctcac tgaagaacct agaattgatc tgcatgagcc 300

tttggccgat catctgatgg atttttatga aaggatgggt gattcattaa c 351

<210> 5215
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072a09b1

<400> 5215

tgcttggtag ctccagatgt gatggaacta acggtcctcc tacattggga gacaactata 60

tcatcaaaac ctttggatgc tccaagtgga caagggtcat gtgacatcaa aatcaatgat 120

gatttctgcg cagttacgat ggtacctctt ttgctacaga agggtgtgct caggacaaac 180

tgcatagact gcttaaaccg cacaaatgtc gcacagtttg catacggatt agctgcttta 240

gggcgtcaac tgcatgtgtt gaagctcact gaagaaccta aaattggtct ggatgatcct 300

ttggccgatg atctgatgga attctatgaa aggatgggtg a 341

<210> 5216
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072a10b1

<400> 5216

ggtacggctc cggccggact tgctgggccg acccatgcgt tttgtttggg tctgcatgtg 60

agattgcggg gccgatgttc ttgttggctg acgaggttgc tcaaaattta aattacgacg 120

ctatgggaca gacatatatc atgaccaact ggatagccga tgacaacttt atatgcatgt 180

atatggatgg agcacctgtg tgttaccata atgatgcaga atgcacgaag tgatctgatt 240

gacggaacac gtggttgtga tcctaagaaa ccctgttggg aactggtggg agtcaagagc 300

atttttgcgg taactatgaa aacactgttt gtacagtggg aggctataag actctgggat 360

agacttgagt gagtaggagg cacacatgtt gaattgtact gatgctg 407

<210> 5217
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b02b1

<400> 5217

gttagctcat ggcatcttcc aagagtagtc ttgcaatgtt tgcactggcc atagtcatgg 60

ccgtggtggc tgacgtctcg gcgcagaaca ccccgcagga cttcgtcaac ctgcacaacc 120

gcgcccgcgc cgtggacggc gtcggccccg tggcatggga caacaacgtg gccaggtttg 180

cgcaggactg ggcggcgcag cgcgccggcg attgccggct gcagcactcc ggcgggccgt 240

tcggcgagaa catcttctgg ggttccgggc agtcgtggac ggccgccgac gcggtgaagc 300

tgtgggtgga cgagaagcaa actaccatct tgacagcaac acctgcgacg ccggcaaggt 360

gtgcggg 367

<210> 5218
<211> 247
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b04b1

<400> 5218

acggttattt tctccaaaac aagaccgagc tactcactga cgctctttcg tcggacgcga 60

cggctgtccc cataaaggcg gatgataacg gtgcgaacac atacaactag catgctttct 120

tgtgagtgaa gagccgacag ttaattctcg gtttcaagac caacaccaag acgctgggca 180

gccccctggc gatgccaatc atactcggga tacaagtgga ttcgcctctg gaagtctgcg 240

atcgagt 247

<210> 5219
<211> 186
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b07b1

<400> 5219

ttgttacgcg tgctgccaag cagaacgcct acctgtgctt ctgccaatgc tggtcatgca 60

agtacttact ttgcttctgg tctacaggaa gttgccagaa tcatgctaac attaaatgca 120

cttgatgtac ctgctaagaa tctaaatctt aggatcttag aggagcctac tgtgtggtaa 180

ttttgt 186

<210> 5220
<211> 248
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b08b1

<400> 5220

tccggccttt gcgggtggac cgacgcactg ggttagcaat ggcatttcgc agcatgagtc 60

tagcattgtt tgcactgcac ctagtgatct gctggctgac cctcatgagt tcgcataaca 120

ccaagtggga cttttatggc cttcacaggc cttcgtgttt ctgggacgga gtccatcacg 180

aaagatgaac cagacagccc ggctttgttt gctgaggact gaactgaaca gtgcggccgc 240

gattgccg 248

<210> 5221
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b10b1

<400> 5221

tttgtcttgg gctgagctag ctgccatgcc ggctgctcct ggactgctcg tgtgtgatca 60

ggtcatgctt gccaaaattt gttcatgctg ctccgatcca tctaaaattg ggatcttgag 120

cttgtaaata gcacgataca gggaggaatt catgcatgtg taatctgctt gtttcgtttt 180

actctcggct atgctttaaa aatcatgggt tccatgatca ttctctaaaa aaaaaaaaaa 240

tataatactc ataattaatc tatttctttc atcatcttat atcatacaaa ttattagg 298

<210> 5222
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b12b1

<400> 5222

tttggttggc cagggcttgg ggaggtttag ctggggtgat aaacagaggt ttgacatggg 60

atgtccagag tgaagataaa ctgctgtgtg acagtcctag atgagtacta gcacgataga 120

cgattacatg gttctagggt gggattgatt acgtgctctg atgcatcacc attaaggtac 180

aaatgatgac tgatttctga ttgacagatc aagtagtggc aacctaagta tcgttggtgg 240

gaactgtcaa ggggcgggag cttttgtggg ttcactatta cctgcccgt 289

<210> 5223
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072c08b1

<400> 5223

cctacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccggc caagttgttg 60

aactcagtgg agaaaacatc aacatcacat acaaacatga tggcactcac atagctgttg 120

gaaataagga ggatgagcta accatagtgg atgttcggaa gctaaaaccc gtccacaaac 180

agaagttccc ttacgagatt aatgagattg catggaataa aactggagat ttattcttca 240

taactactgg gcttggattt gttgaggtgg tcaactatcc ttcccttgat gttgtctgca 300

aattaaatgc ccatacagca gggtgctatt gcatagcaat ggatcccctt gataggtatt 360

ttgctgttgg aagtgcagat tcacttggca gtctttggaa atgt 404

<210> 5224
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072c09b1

<400> 5224

ttgtctacgc gtccgcccac gcgtccgccc acgcgttcgt tcacgcgtcc ggccaagttg 60

ttgaactcag tggagaaaac atcaacatca catacaaaca tgatggcact cacatagctg 120

ttggaaataa ggaggatgag ctaaccatag tggatgttcg gaagctaaaa cccgtccaca 180

aacagaagtt cccttacgag attaatgaga ttgcatggaa taaaactgga gatttattct 240

tcataactac tgggcttgga tttgttgagg tggtcaacta tcctttcctt gatgttgtct 300

ggaaattaaa tgcccataca gcagggtgcc tattggatag caatggatcc tcttgctagg 360

tattttgctg ttcgaagtgg caattcactt gtcaagcttt ggaatgtcaa aaagctgctt 420

tgcattaaaa cctttcaaaa 440

<210> 5225
<211> 397

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072c10b1

<400> 5225

atcacattgg atgttggtac aaataatgag gagcttctga atgatgaatt ttacattggc 60

ttgaggcaaa gaagggtcac tggccaggag tatgctgatt ttctgcatga atttatggct 120

gctgtgaagc aaaactatgg ggagaaagtt ctcattcagt tcgaggattt tgcaaaccac 180

aatgcctttg atctccttgc aagatacgga acaacccacc ttgtattcaa tgatgacatt 240

cagggaacag cttcggtggt ccttgctggg cttgttgcag cactgaaatt agttggtggt 300

acattagcag agcacaccta cctgttcttg ggagctggag aggctgggac agggattgca 360

gaacttatag cttttgagat ggcaagacag acaaaaa 397

<210> 5226
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072c11b1

<400> 5226

tcgtttcaac gtccatcctg gcgaggatcc cctctcctcc caccagcatg cggcccgtcg 60

ccacgggctt ccccgtgcat ccctcgcggc agtcctcctc tcttctcgcc tttactgcga 120

gcagtgcagt gcagtcctcg gcgtcggaag aacggcggcc tactccggcg gcatgggatg 180

caatacttgg gcacgcgatg tgcggtccgc agttgcggtt cgtcggacgt ttgtgtgtgg 240

ctcgcactaa ccagcaaggt gatgaagact accctgggtc aacgctattc tgcctcctct 300

gttgcgtgca gtttgctgcc tgctgcaccg tcggagattg cctcgcagtc catatttcaa 360

gcctgtgcag cttacagact acctatgtgc ggtggtacaa aagccagcga gaaaag 416

<210> 5227
<211> 349
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316072d02b1

<400> 5227

cttcaagacc cttcccgctt ccccgaggcg gcggcgcgag cgagcgagcg agcaaccggc 60

ggcgatgggt aaggcggcta agagctcgcg gaaagggaag aaggcgtggc ggtccaacat 120

cagcaccgac gacatcgacg agttctacga gaagcagacg cgcgacgccc acgccggcgc 180

cgccgccatt ccctccctcc cgtccggctc cctcttcttc gtcgacaagc ccgccttcgc 240

gtccaccttc ttcgncgnca acgcatncga cccggccccc aaagatgttc ctgtcaaaag 300

gaagattgag aaaaacaggg agaaggttct tcaccatgag agtgtgttg 349

<210> 5228
<211> 342
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d05b1

<400> 5228

ctttagtaac ctcgccgagc taaggtccgc ggcggcagcg gcggccatgg atgattacta 60

cgagttcgac cacttcgatg acggaagaca gtacggtggc ctagagcatg ccatgaagca 120

caagaagagg aggtccgtcc tacgcaagtt cggagacttg tttaggagga gaagcctgct 180

gcacaagtca gacgactttg ctccggttct agctagtagg tagtactccc tctctgtacc 240

ataatatttg tggggagtac taaatatttg tgtgattctt gcattgtgtg tttgctggat 300

aagaatacta tgaaatacac gcagaaataa attgagccct gc 342

<210> 5229
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d06b1

<400> 5229

ctcacgcgtc cgcccacgct tccgtacatc tcacttatcg ttctaaaaaa gatcctagcc 60

gatggggacg acggacacca tcacctcgct caagaaggcc accttctgag gcatcgccac 120

gtgtactaag atgggcctct gcttttatag atcgaagcct gaactacact atgcatgaga 180

tacacttgca tggagtgatg aggattaaga gtaacaaaat tggccttttc tagacaagat 240

gagac 245

<210> 5230
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d08b1

<400> 5230

ttatttaaaa aaaaaaaaaa caaaaaaaaa ccatgatata ttaaaaaaca aataaagctg 60

aacaatgaaa aagaaaagaa aaaagaacat aaaaatgaag ggggggccgt tttaaaggac 120

ccaagttcac ctacccctgc ttgcaacaca aaagctttac tatagtgccc cctaaatcta 180

attaactgga ccccttttta caactttggg actggaaaaa ccctgggaag acccaat 237

<210> 5231
<211> 93
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d09b1

<400> 5231

ttgtttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaacaa aaa 93

<210> 5232
<211> 126
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d10b1

<400> 5232

cccctgcggg ttccgcgcct gtgttcgcgg cccgacccac gcgttttgtt ccaggcatgc 60

ggatcgcggg tggacgatgg tttaggtcag gatcgtgacc catggtgcat caccctgatg 120

agttca 126

<210> 5233
<211> 392
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d11b1

<400> 5233

ttgcctcacg cgtccgccca cgcgtccggt caaaattaga ctcaaaggac atcaaaagag 60

gataaccgga ttggccttct ccaacagctt gcatatactt gtttcttctg gcgctgatgc 120

acagttatgt gtgtgggcca ccgattcttg ggaaaagaag aaatcggtcg ctatacaaat 180

gccagctggg aagactccat caggagacac aagggttcag tttaattctg accaaaatcg 240

cttgttagta gtccatgaga ctcagatagc tatttatgat gcgttcaaga tggagagaat 300

ctaccagtgg ataccctagg gcactttgtc agctgccata tcacacgcat cgtacttcgt 360

gcaatagcca actagttttt gcttgctttt ac 392

<210> 5234
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d12b1

<400> 5234

gttgatcgct cttgggaaat tgcccgaacg gtctgtgtca atgaatggat ggggccttgc 60

tttccgagcc tgtggtgacc ggctgattgt cattggaggc ccaaggactt ctattggtgg 120

catcattgag cttaattcat gggttcccga tgggcaaccg cctgtgtgga atttggttgc 180

cacacggcaa tccgggaact tcgtgtataa ctgcgccgtg atgggttgct gagtccactg 240

aataaagatt ggatgcagtg gatatttatg aaggatgata gtatgcacaa aggcagcccg 300

ttcaattgct tcagccctga ttcttcgaag cgatttatgc c 341

<210> 5235
<211> 145
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e01b1

<400> 5235

agacggtttt ttgtcatgga ccacccagcg cgtgagcatg atatgattta ttctagctgc 60

ggtgacgaaa atgcatgaat ccgaggctgg tggaggaaac tctgctttga ggagttcacg 120

gacatggatg aaggcttttt tgatg 145

<210> 5236
<211> 228
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e02b1

<400> 5236

tcgttggatg aaaattaata aaacctcaac accagaaaac gcaacagaca cgggaatgta 60

cagtgcctag cctacaccaa gcccgttaca gagcccagct gtaagcctgc gacgacctca 120

cgctaagcaa aagtcacgat ggccgggggg atgcaggggc cgccgtcgag ggcaagcacg 180

acccgttgcg caaccggttt gggatgggcc ggaagcttca acttctta 228

<210> 5237
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e05b1

<400> 5237

gttgtacttg actggggaga agacacggtc tcctggggaa gaggtggaca aggtgtttgt 60

cgccatgaac cagggcaagc acatcgacgc gctgctggag tgcctaaaag agtggaacgg 120

tgagcccttg cctctctgct gaacagagga tcaagaaact gaagagaaga ctgtgtgcag 180

aaggctttgg atcttttaaa tgataaatga taatattttt ccaattgtat tttcttaaat 240

attgatgttt tgtgggatgg aacatccttt cggagctgcc atgttgtttc caaaaattgc 300

aactgcataa cttgtagt 318

<210> 5238
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e06b1

<400> 5238

ctttctcgtc cgctcttcct ccggtgcgac tccttcgacg tgcaggtcgg cttcttgtcg 60

ttggggtcgt tggtcaccat cacctcgctc aagaaggcca ccttctgagg catcgccacg 120

tgtacttagt ttttcctctg cttttctcga tcgatgccag tactacacta tgcatgtgat 180

acacttgcat ggagtgatga ggatttgtgt aacaaaattt tcttttccta gtaaagatga 240

gaccggtttt tcccagggac cctcggtgta ttgggatgtt tttgccaatt agtcagtgag 300

atgaaagggg acatgttctc ctactacctt actgatcaag ctggttatcc accgtgggtt 360

ggtggcactt tctacaagga ccgatcaaga tct 393

<210> 5239
<211> 133
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e08b1

<400> 5239

tgcgttgatg catgcaacgt tctaccggag ctagaggcca ttgccaaaga ttgcactctc 60

taatacttgt caatgtaagc gaaagggcac aaattttcat gtcaaaaaaa aaaaaaaaaa 120

aaagatttaa tag 133

<210> 5240
<211> 140
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e10b1

<400> 5240

agggcccggg cctgaacgcc tgggtcggcc cacccataca cttacttacc accggacacc 60

cggccgactg agctgcagcc atagatgaca gtacgagcac tccgtttgat agcacgctgg 120

ggatgaccca tgagagagat 140

<210> 5241
<211> 223
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f01b1

<400> 5241

gttattgtta cgcagcagcc aaaaagctag ctaaacatag cccttcggca tgggttccaa 60

caagaagcgc agcaggagtg ctgcggctcc ctggtgtgta gtcctaggca tactcctgct 120

tgtcgtcggg gcggtggcca aggaccttgg caacatcttc caggactgcg aatttgattg 180

ccaagatttt gatccatcct ccgactccta cttcatgtgc atg 223

<210> 5242
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f02b1

<400> 5242

gttgccgcaa tcatcgccct ccttgccgtc gccaccgccg cgcagggccc catgccggcg 60

cccaggatgg ccccactacc ggcgcctccg gcgaggtccc cggccactgc ccctgcgcct 120

gtcgccacct cgcccaccgc cgcgtcgccg tccccgatgg cctctccccc ggccccgccc 180

accgacgcgc cgactgacgc 200

<210> 5243
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f03b1

<400> 5243

gttgactatg tcggcaggga gcgagcgctc gaacgccgtc tacgcgaccc cggcggccgt 60

cctggcggac ttctcgcgcg gatccggccc gtccgtctcc ggcggcgccg cgggtaccgg 120

caccggcagc gggaggagcc aggcggaggg cggggcgagg aagaagcccc ctctccgcct 180

cgcggcggac gacaccaagc ccgtgctccg cgacccgatc tcgcggtccg accccatgga 240

gactgagcag gcc 253

<210> 5244
<211> 300
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f06b1

<400> 5244

cttcagttcc ccgatgagag tcgagagagt tacaccgctc tcggaccgat cccttatctt 60

ctccgacggc ctcgccgggc ggagcggaca cgggagaggt gcatggcgta gccctatgta 120

tatagaatct aggcataggt tgaggacgag tagtgcccat gtggcgtatg gctggatgcc 180

gatgaggaga gcgccggcgc catgtactag cagcggttgg tgagctacgg tggctgcgac 240

tcaggcaagg ctggctagtg gccaagacct gccgaggggc gtgcctgtgg ctcatttcacc 300

<210> 5245
<211> 234
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f08b1

<400> 5245

tgcttgactg aggtgaagaa ggggaagaaa gctgtggact acattggcgg cggtggaact 60

atgaaggcat gtggtggatc ttccagggat gattactagg gtggaggatc tgggaggtct 120

ccgcattaac ttcaaaagac gagggcgttg aggtatttgc tgtgcacact catttttctgc 180

aattgttcat ggactcagag cattttcaaa tattatcctg aaggatttct ttgg 234

<210> 5246
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f09b1

<400> 5246

ttgtttgact gaggtgaaga aggggaagaa agctgtggac aagattggtg gcggtggaac 60

tatgaaggca agtggtggat cttcgaggga tgattacgag ggtggaggat ctgggaggtc 120

tcgcattaac ttcgaaagag gagggcgttg aggtatttgc tgtgcacatt tatcttctgc 180

aattttcatg tcctcagtgc attttcaaat atcatcctga aggatttctt tggagaatat 240

gatccttctt acacaaggaa gcaaatatca tcctgaagta ttactttgga gaatatgaac 300

ttttttacaa aaggaagaac ctgatggttt agttgctggg ataaggctgc ttggtctat 359

<210> 5247
<211> 218
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f10b1

<400> 5247

tgattttagt ctctctgtga ctcgctatta gcaactgttg tggtcaagtg caaacctatt 60

tcaagcattc agtactgttg ttgcggccat cactcagagg atgtcataaa gtacctctta 120

ttgaaagaac catgtgatgt ttgatggctt gctaaaaaaa ctttttgtat catgagaacc 180

tgagttttgt ataactagga tctttgtctt ctgttatt 218

<210> 5248
<211> 353
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f12b1

<400> 5248

ttctgtttca acgaataagg ttcacttcat cctgaagcac aagaacccca agactggcaa 60

atatgttgaa catcacctca agtccccacc ctctgtccca tatgacaagc tctctcatgt 120

ctacacggct atcttgaagc cggataacga ggtcagaatt ttggttgatg gggaggagaa 180

gagcaaagca aacttccttt ccgctgatga ttttgagcca gcacttattc catcaaagac 240

tattcctgac cctgacgaca agaagccaga ggactgggac gagagagcta aaatccctga 300

cccacctgca gtgaagcctg atgactggga tgaggatgcc ccaacagaaa ttt 353

<210> 5249
<211> 277
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g01b1

<400> 5249

ctgtatcata ctgttggatg ataacatggg gccgataatc gccaatttcg gtctcttccag 60

actctttggt caagaacaaa cacggatgaa cacacagaat gttgttgggt catatggata 120

catagctccg gaatatctat acagaggtga aatcttcacg aagtcagaca tatacagttt 180

aggcctacta atcatggaga ctaccacggg agagaagaat tgtccaggca aagaaccgtt 240

ttgaggtgaa ttcaataaaa atgttcctga aaactgg 277

<210> 5250
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g02b1

<400> 5250

cctacttgtc cgggggggacg accgatccat gggggccgtt gattaaatga ggccagcaga 60

tcgcggtgcg ccccccgtct ccgtcttcgt cgccgccccc gtctccgttg cggtcttcgt 120

ctccttcttc gtcgccgccg ccgacgtcgt cgtcttcccc gaggttgcat tcagcttcca 180

attattgccg tgatccccag gaagagagag tacttggggc actctcctat gcttcttccga 240

gactcgctca ttttttttcct tgcaagggaa ccagaccgtc gcatggcggg aaacttgggg 300

aatttgcctc atgcaacttg aataatgaag tcctttggct tttaaggttc c 351

<210> 5251
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g06b1

<400> 5251

aatacttgta cgaacaggtg gttctacacc aagtttcgtt tgtaggcatg catgccgtcc 60

gtgctgggcg ttcctgtggc gctactacct gaacacgatt acattgttag ctgcttgctc 120

ttggaatccg cccctggttt ggtaattgcc catgaagact ctgtgtgtag cgtggatctt 180

atgagatatg atggtgtctc atgtgatgaa ccatgcgaag aataaatgtt agtgggaata 240

atggtacacg ttattacttg gggagatatg ctgactgatg tagacaaata ttattgcctt 300

gaaatgattc tggtataatc 320

<210> 5252
<211> 212
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g08b1

<400> 5252

tttctttgat cggcatgctc tccaaggcct gacgctacgc ttgcacacac ttgcatatgt 60

atgacgcagt gcgtgctaat aaatcgttct ggttttcggt tgtttcagct acctgtagta 120

gccacgcaat ggcgtttgta agtaaacctc agtatgaagg ttgccatgga ataaagcatg 180

tatacatgct gcggaaggta agcttttgca ac 212

<210> 5253
<211> 244
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g09b1

<400> 5253

tttgttgatc ggcatgctct ccaaggcctg acgctacgct tgcacacact tgcatatgta 60

tgacgcagtg cgtgctaata aatcgttctg gttttcggtt gtttcagcta cctgtagtag 120

ccacgcaatg gcgtttgtaa gtaaacctca gtatgaaggt tgccatggaa taaagcatgt 180

atacatgctg cggaaggtaa gcttttgcaa cctataaaaa aaaaaataat taataattct 240

ccta 244

<210> 5254
<211> 178
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g10b1

<400> 5254

cggcaccggc ccggccttac ttcctggacc cacccacccg ttttcttcgc caggccacac 60

tccgggaccc ggggatccac tccgggtatc cattagctga cccacgactt tcagttgcac 120

cgaaccatgc tatgacgccg acgaagagag catgacccac tctaaccagg gaggcgag 178

<210> 5255
<211> 260
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g11b1

<400> 5255

tggtcacgcg tccggtcgga gaacacccac cacaatggct acgcccgagg cttactccct 60

cggcgaaacc ctagcgaccg gagcgctcgg tggcggcaga catggccgac gacgactaca 120

atgaagtcga catggggtac taggatgagc ctacagaggc tgatattgag gaaggggctg 180

aagaagaccc tgagaacaac gaggatgccc ctgatgacgt gggagggggt gaaggtcaag 240

aaaaggaaca gcgaaagact 260

<210> 5256
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g12b1

<400> 5256

tgctttacgc gtccgaccac gcgtacgtcc actgcgtatt atttttcaag ctgcacgttt 60

taccttctgg catgactacg taccctatgt gggcttttag aaatgctgta tcttcctatt 120

acaaatggag aaaaacaaga aattctgcgt ctattataga aactttctgt agtatgagaa 180

ctggg 185

<210> 5257
<211> 228
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h01b1

<400> 5257

catagattgc ccagagcaga gcgagagcgg ccatggtgtt gtcgagcttc aaggtgacgc 60

ggatctcgga gggcgcggtg aagccggtgt tggagacccc cgaccatacg ctgccgttgg 120

cgtgggtgga ccggtacccg acccaccgtg gcctggtgga gtcgatgcac attttccggt 180

ccggcgccga ctcggtccct gtcgtgattc gtcaggcgct gggcaagg 228

<210> 5258

<211> 259
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h02b1

<400> 5258

aatagatctg ccctctctct ctctctcgtc cgcggcgata cgatccgaga tggcgatgag 60

ggcgtggagg aggagcgcgg cggcgagggc cccggcgcac ctgtgcctgt ggctggcgct 120

cgtggccgac accctggtgc tcgcccaggg taagaagtcg aacctgtcgg aggtgacgca 180

caaggtctac ttggacattg agatcgacgg caagcccgga ggaagggttg tcatgggact 240

tttcggcaag gctgttcct 259

<210> 5259
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h04b1

<400> 5259

gtcactacaa gcacagaggg agaagaagaa gggatggcgc ctatgaaggt gtacggctgg 60

gcggtgtcgc catggatggc gcgggtcctc gtctgcctgg aggaggccgg cgccgagtac 120

gagctcgtgc ccatgagccg caacggcggc gaccaccgcc gcccggagca cctcgccaga 180

aacccccttcg gcgagatccc ggtgctggag gacggcgatc tgacgctcta ccaatcccgt 240

gccatcgcaa ggcatattct gcgcaaatg 269

<210> 5260
<211> 307
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h06b1

<400> 5260

cctactcgtc cgcgcacctt ggcagactac aacatttatt aaggagtcaa cccttcactt 60

ggtgctccgt ctccgaggtg gccagtaagc tcgtgaccat ggagctgctt ctgttatctg 120

ggttcacatg tctcggtgtc ttcggttcct ccaatggagt ctggtctgtg tctgtcgttg 180

cctgaactgt ctttgtttct atatatatat accatactgt gatgcagtgt tattgtttgt 240

aagtgcaaac ttctgctggt gtgcagcaac ttttgatgaa ctttaaagaa taaagtgagc 300

cctgaat 307

<210> 5261
<211> 250
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h07b1

<400> 5261

tgcacggacc gggcactgac tttctggatc gacccacgcg tatagttatg acctatatat 60

ataatataga acgtgtgtga ttctatccaa gatggcgatg aagggccttg aggaagaaca 120

cagataaaaa gacccaaaga acacacttag ggggcggctg ttttaaagaa tcaaaattct 180

ggtgctcgtc cagggaaaga aatagttctt ttttagggta acctaaattg attaaattgg 240

ccgtgtttat 250

<210> 5262
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h08b1

<400> 5262

atagttatgg ctgccatgtc tatcaacgac catgttttgc tacacatcct gattacgatg 60

gctgttccgg acgatcttat agacgctggc ccatatacac cggggcctga cgtgggcgat 120

gccctaaccc acgcctatac tcccaccgag aaagacgtcg aacctgtgag tgtgaaacac 180

caagcatata ctgctgcata cca 203

<210> 5263
<211> 236
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h09b1

<400> 5263

tcgtttaatt gctgccaaga atatcaacga acatgtcctg cttcagatcc ttattcccat 60

ggctgttctg gacgccctta caaaggctgg cagaaatagt tgggggggaag acctgggcca 120

tgccataacc actgcctata ctcccatcta tgaaaccatc gaatatatga gtgtgaaaac 180

cgagcatagc gcgctggata ccatgaaccg gatcaaaagc gcactggaag gatggc 236

<210> 5264
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h10b1

<400> 5264

tgcttgcgtg tgatctgatg gagtcaagca ggtttgcttg tgcgtgtgcg tgcggtttgc 60

tcgctcgctc tcccatgctc tgcccattgt gtccttgtgt gtatgtgcgt gtgcatgtgc 120

ccctgtaatt gctttatcta tccccactat ggatggagtg atgaatatgt aagaatgaaa 180

gatttaccta attaactact cct 203

<210> 5265
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h11b1

<400> 5265

tggtttagtc ggagaagggc tgacctgagg acgagtgatg gaacgcgacg gcgccggccg 60

ctcggtcgga gccagcgagc cgtcggacgg cgactaagga gccggcgttg gtgtccatgt 120

ccgcctcgcc ccttggcgcc ggcgtctctg ccacctctac ctcccgctac tcgtcgctat 180

ccgcgcgacg gcgggggtcc atgcgccggc cggagctcca atttttgcgg cggatcccga 240

gggaggcaga agaggaaaag gagggaaggg gctcgaggtt tggcggccgt ctctttcgtc 300

cgttggttaa ttggtt 316

<210> 5266
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073a03b1

<400> 5266

tttgggaatg ggatatttga ttgggtagaa tggacgacat ctataccgga gaagtagtaa 60

tctgttagta tcctccagaa aatcatagag aaggacgcca cggtctcaac agatggacgg 120

cctgccgtca agttggacag cagaatcata gaactctaca aagtgtatgg gttgactgaa 180

aggtgagatg aggggttgtc aacaacatct atgaaatacc tggttaatta atcctacatt 240

tcagtatcaa ccaacatttg ttccttcctg agctctcaac cctagtctca tcgatgatgc 300

agcctgcgca tcacttgttc tcagttgctt ggtaagtact 340

<210> 5267
<211> 178
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073a04b1

<400> 5267

ccggccggat tcctggttga cccacgcgtt cgtctctttt gtgcaaggat ggcaaacgcg 60

ccttgtttgt tatttccatc aatatactgt cttatcgtga aaaaaccaaa aaaagccagg 120

tcgtgtgagg ccccttctca aaataaagcc cccatctcta gctttaaata caccgcag 178

<210> 5268
<211> 224
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073a05b1

<400> 5268

ttttcttgtg ggcgcgccac gcgcgtgtgc gtacgttagc ttatcgcctg agctggtggt 60

tctgtgtagt gatgctgtga gcgtggtgtg tgtgacgacc cagtacaaaa taaagcctac 120

agctcgtact atatgtaccg agcaagattg cgttcactct aacagtcacg tgctctgtgg 180

tgtaactggc gtgtggacaa ttctgaacga gagtttttac gcat 224

<210> 5269
<211> 371
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073a09b1

<400> 5269

aggaggaggg agagggacgc ggaggcggag ctcaacctgc cccccggctt ccgcttacac 60

cccaccgacg acgagctggt ggagcactac ctgtgccgca aggcggccgg gcagcgcctc 120

ccggtcccca tcatcgccga ggtcgacctc taccgcttcg acccgtgggc gctccccgac 180

cgcgcccttt tcggcacccg cgagtggtac ttttttaccc cgtgcgaccg caagtacccc 240

aacgggtcgc gccccaaccg cgccgccggc aacggctact ggaaggccac cggtgccgac 300

aagcccgtcg ggccccacgg agggcgcacc atggggatca agaagcgccg gtggtttatg 360

ccgggaaggc t 371

<210> 5270
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073a10b1

<400> 5270

cccacgcgct tttgtttaag ctatgtactg ctttcaccat tactgtggat gctaaagaag 60

gcacaacgac tggggtatct gcaaaggata gggcaaagac agtcatgact cttgcatctc 120

cttactcaaa gcctgaagat ttcaatcggc ctggccatat tttccctctg aagtacagag 180

atgggggtgt tctcaaacga gctggacaca ctgaagcatc tgttgatctt gctgtgctgg 240

ctgggttacc tcctgttgga gtactctgtg agattgtgga tgaggatggt tccatggctc 300

gcttacccaa gctgcgcgtg tttgctgaaa agaataattt gaagatcgta tcgattgctg 360

acttgattag atattggaga aaaagagacc gactaattga acgtgcatct gttgcacgct 420

tacctttgag at 432

<210> 5271
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073b05b1

<400> 5271

gttgacccac gcgtccgttt tttttcttct gtctcgccct tgcccccgt tcccttgttg 60

gtgcccgatc taagtcaaga tgagtcgtgg cgggagtgct ggtggtggtc aaagttctct 120

gggttacctg tttggagatg gtgagcctgc aaagcccgct gcagcaccag ctgcgaagcc 180

cgcacctgct gagaaaccag caccggcagc tgctgatgta gccaagcaga ttccagctgg 240

cattccaggt agccgggcga acaactacta ccgtgcagat ggccagaaca cgggcaactt 300

ccttacggac cgttcttcaa ccaaggttca tgctgctcct ggcggtggct ccttcctggg 360

ctacttgttt ggcggaaagt gatgttaatg atgctgctta atgaacgaac gatgaattgg 420

gcctgtttct ctgttatcca tgt 443

<210> 5272
<211> 246
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073b06b1

<400> 5272

ggatgaatgt gtggatagtc agtctctatg tgacattaat atctttgtat cctgcatgcg 60

cctaatctat ttgatcagat tcaactacta ttttattttg tgtttctagt tggaaaagta 120

taaagggcat gcacgttcaa tctcacgagt gttgtaagct acttgtttgt caagtttcgc 180

ttgaccattg cgtgcttgtt gtcgatgttg tgattgtctt ccccaggaaa attggtgtaa 240

cacttt 246

<210> 5273
<211> 504
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316073b08b1

<400> 5273

aggccgccan gcatggttta cctgtaattg caacaaaaaa tggagctcct gttgaaattc 60

accaggtgtt ggacaacggc ctgcttgttg atccccacga tcagcatgca attgcagatg 120

cactctataa gcttctttct gacaagcaac tctggtcaag atgtagagaa aatgggctga 180

aaaatataca ccggttttct tggcctgaac attgcaagaa ttacttgtcg aggatattaa 240

ctcttagccc aagataccct gcttttccgg gcaatgaaga ccagattaag gcacctatca 300

aggaaaggaa gtgtatcatc gttattgctg tagactctgc cagcaagaaa gatctggtct 360

gtatcataaa aaattctatt gaggctacac gtaaagaaac gttgtcaggt tcaacaggtt 420

ttgtgttgtc gactttcctg acaatgtcag agatacattc cctattaata tctgcaggca 480

tggctcctac agattttgat gctt 504

<210> 5274
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073b09b1

<400> 5274

ggcggagtcc atgatggaca agatcttcga caagttccac ggcggggact tctcgtcgtc 60

ctcctcggac tcggacgacg acaagaaggg gccggcggcg ggcgagaagg ccaagatcta 120

ccgccttttc ggccgcgaga agcccgtcca cgccgttctt ggcggcggca agcctgctga 180

tcttgatctt atggaggaac aagatggtct tcggaggggt gcttgctggc gctacggcca 240

tttggctgtt gttctaggtc atggagaacc atctgctcac tttggtgggc cactgcctta 300

ttcttttcct ggtaacactt ttccttttct tcaatgtctg cattttttatt tcacaagttc 360

ttcctaaatc attcctgagg tgtaatttca gaggtcatgg acctgtaact ttgcactatc 420

actggggcat gagaacaacc ggggcttttt t 451

<210> 5275
<211> 347
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073b10b1

<400> 5275

tttctataaa aatgaatcct gaatacgatc acttatataa acgtttgtta attggagatt 60

ctggtgttgg aaaatcatgt cttttgttaa gatttgctga tgatacttac actgaaagtt 120

atatttcaac tattggagtt gatttcaaga ttagaactat tcaattagat ggaaaaacta 180

ttaaattaca aatttgggat actgcaggac aagaaagatt tagaactatt acttcttctt 240

attatcgtgg tgctaatggt attattgttg tatatgatgt tactgatcaa gtttcattca 300

acaatgttaa acaatggctt caagaaaatt gatagatatg cttgcga 347

<210> 5276
<211> 166
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073b12b1

<400> 5276

gaaccaggtc tcgtgtggga gaggctaaga tgtaattccc catttctagt caagaatgaa 60

cccttgctat gtacggcatg acggggtatt tcccctcttg atctacctct tgtatccata 120

attcctccat gaaatccaac ttaattttct gaattctaaa caaaaa 166

<210> 5277
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073c02b1

<400> 5277

ctctcatcgt atcttaccgg gggtcacctg agatcacata cacaatggtg aaggctgtgg 60

ctgtgcttac cggcagtgag ggtgtcaagg gcaccatctt cttcacccag gagggagatg 120

gcccgaccac cgtgacggga agcgtcactg gactcaagga agggctccac ggcttccacg 180

tgcacgctct tggtgacacc accaacggct gcatgtcaac tggaccacac ttcaaccctg 240

ctggtcatgt gcatggggca ccagaagatg aaatccgcca tgctggtgat cttggaaatg 300

tgacagctgg agcggatggt gttgctaaca ttaatgttac tgactgccat atcctcctta 360

ctggaccaaa ttcaattgtt ggccgtgctg ttgtcgtcac cgtgaccctg atgatcttgg 420

caagggtgga catgagct 438

<210> 5278
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073c05b1

<400> 5278

aaccaccacc acaagtgagt gaacgtcgga gcaaggaaag gcagggagag atggcaatga 60

ggccgctcgt cgtcctggct ctggccgtgg cgctggccgg ggtggcgctg cgaggggcg 120

ccgcggaggg ggccggcgag tgcgggaggt cctcccccga ccggatggcc ctgcgcatgg 180

ccccgtgcat ctcggcggcg gacgagccgg actcggcgcc ctccagcagc tgctgctcgg 240

cggtgcacac cctagggaag agccccagct gcctgtgcgc cgtcatgctg tccggcaccg 300

ccaagatggc cgggatcaag cccgaggtgg ccatcaccat ccccaagcgc tgcaacatgg 360

ccgaccgccc cgtcggttac aagtgcggag aatacacgct gccttgatgg cccagctctg 420

gtgctga 427

<210> 5279
<211> 248
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073c09b1

<400> 5279

gacctcgccg ccgccgccga ggcctactgc cggctggcgc tgagcggcct ccccgccgcg 60

taccacgagg tggagtggga cctcgtcatg gaggacgcgc ccacggggtg ggtgcccgag 120

gcgcccggga ggatgggtgc catctacacc gacggcatgg tggcgcgcgc gcggcggtcc 180

ggcgacagta ccaccgacgt gttcgagcac gacgtggacc ggacggagga agacaaggtc 240

tccaagga 248

<210> 5280
<211> 190
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073c12b1

<400> 5280

tttttaaagc caggaaatta atggtgagtt acctatcatg taaaaggcaa catgtgtaaa 60

atacaggcaa ttttgctgta aatttcataa taaaaataaa aatattaaaa aaaattaaaa 120

aaaaaagtaa aacaaattaa ataaaaaaaa aaaaaaatat attaatataa tatatatata 180

ttatataatt 190

<210> 5281
<211> 336
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d01b1

<400> 5281

agatccaccc accctcccaa catctgtcct cctcgtgtcc cggccccggg gtgggttgat 60

gatgcatgcg gtgcaaatgg caagagcccg gaggtatagt atacatgtac tgagccgtat 120

atacatgtgc tcatcttgtc gtacgtacta cgtatctgtc ggtgtgtgaa agtgtgtgct 180

gccacgcatg tcccctcttg gcagtgactg tgtccgtgtg taacattgcc actacttcaa 240

atgtgtgcac tttagtacat gtgtatgtgg tttctgtaaa caatctactt cggggttaat 300

taacccaccg acagaactac agctatctta tcgctt 336

<210> 5282
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d02b1

<400> 5282

ttcttatttc catccatccc ccaccgccat gagagattga aatcgattca aaaaattcca 60

gcaagtgtac gtcgtcgtgt catcatcagt aagccagttt agtttcattc tctctccctc 120

tctctcacgt gtctttgaga aattcagggt aaacagtgtg agtcagtcag tcaggaataa 180

tctcttgtct tggtgtatgt cctcaattat gaatgcttct attccatggt caagattgat 240

gtttgtaaat caaaaaatta ttcttaacta ttacccattt atcttccttt cctctcactc 300

ttcaattact accctag 317

<210> 5283
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d03b1

<400> 5283

caacatcatt tctaagggcg acgccgctga ggcccctggc accggcggag aagcagcttg 60

agcgacgcca agctcaagga gatgagcggc agcatcatct tcgccgtcgg ctaggcgccg 120

gcccgggact tcctcggcgg cattcgcaag ccccccggcg gcgagagcag catcgcgctg 180

gtctaacagc gacgacgaca tcccctgatg gacaggacag gacagacata gcctacaaca 240

ttcttcgttc ttcaccttta ccccctcgcc gtctcgatct aggagtgatt gattttctag 300

ggagcttttt ttttttcgtc gtcttctttg gtgggactga tctgcgaatg acctttttggt 360

ttggttttcc ccctttaaaa aaaaaataaa aggggcgccg ttttagagga 410

<210> 5284
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d04b1

<400> 5284

atcaagtttt gttttgttga tcccccacct aagagcagtg atggcgcagt caggcaacaa 60

cgacgccgcc ccgatcagca cccagcccgc ggcggaggag gtgacggtgg agaggacgcc 120

cgaggaggag gaggccaggc tgaggtacct cgtgttcgtg cagcaggcgg cggcgcaggc 180

ggtcgtgctg gccgccgcgg tctacgccta cgccaagcag ggcgcaggcc cgcttcgcct 240

cggcgttgac cacgtcgagg ggaccgtcaa ggccgtcgtc ggtcccgtct acgaccgcta 300

ccacgccgtg ccgtttgacc ttctcaagtt ccttgaccgc aaggttgatg agtctgtcca 360

ggagcttgat tcttgtgttc caaccgttg 389

<210> 5285
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d05b1

<400> 5285

acacactcaa tcttgccgtt tgtctatttt tgttatcctc ctcaaggctg agccccaccg 60

ccttcgacga gtggccgttc ccgccggggg cgggggagag cctgtggagc taccacgatc 120

cctagtgagt agtatattgc attggctcaa gacatgatga ccggtgagct ggttggtacg 180

tgctccagta ctataccagt tactaaacct agttaatccg gagtcgatac atggaccccg 240

gccgttgcgg ggcattcgtc ctctatctgg tatatatgcg tgtgccatga taggggtatt 300

attgggtgct ggcctgccat attatagccg ttacctagaa 340

<210> 5286
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d06b1

<400> 5286

cgtctgtctt tcttctcggc ggaggcgaac gacgaaccct agccgcccga ggaacgccaa 60

gatccccaag gccggcgacg atggccgcgg ttcggtgcgc ggcgaggagg ctcggcggct 120

ctctgctcca gcgaacgcag gcggcggtcg cggaggaggg acgcctgctc gcgccaagca 180

ggctcatgcg ctcccgccag ctctccacca aggtctccgg cgagcgatcg caggtggcgg 240

agcgacacct cctcgagcca ggcagcctca tgcgctcccg ccagctctcc ggcgagcatg 300

ctcgcaacat tcagaagaaa gaggatgact gctgggcggg gttcaatgag acgctaaaga 360

ggttggacga gcttcataaa aagaagaaac caagtgtctt tcagcagcgc atgatattca 420

tcgaccgtgc gttgaagagt ttgtctatg 449

<210> 5287
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d08b1

<400> 5287

ggatacatcg cagtgcgaga ttatctggat acattgcgca attatgttgt taatataagc 60

agggatgatc ccatcattgt gaagcagggt tctctcatcg acatggctgg ccctaagcga 120

gggatagatt tgatttccac tattctagtg gaatatgaca tgcggatcaa ggtaggtgag 180

gaagaaaggg atgattacca gctgattgat ggtgtaacag acatagacga cctgggccca 240

tggaattgtg cattgaaaaa tcgcatccaa ggcgactgtg gtgcggttga cttaaccata 300

gcacgtgtcg atgacgcagt catggcgaat attgaagttg ttgtgttaga ggtgcagagc 360

agctttgatc tatgcttgcg ttgttatatc ggtgattata acgaaggaat tcggctgttc 420

aatggtacaa ttggcgagta acgtatttaa agaggtctgt ggttgctg 468

<210> 5288
<211> 355
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d10b1

<400> 5288

gaaggggaag tcgttagaat gagccgttgt gccaccattt ctgtgccttg aacaccacct 60

gcaagcacag ttttccccat catagtgcct caaatcccag actccgttgc actggatgct 120

cagatctttt ccgggtctgc aaatgcaatg cagtacactg ccaccagcat tgcggttgtc 180

gaaaaaccag tgcagaacag aatcgaggtc tgcatgggcg gcaaatgcaa gaaggcgggc 240

tcgctcgtcg tcctgcagga gtttgagacg gtagttggca cccacggcat ggtggtcggt 300

tgcaaatgct tggggaaatg tgggcttagc ccaaagtgcg gttgtaagcg agggc 355

<210> 5289
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d11b1

<400> 5289

caaggctagc tccgtgtact ctttgagtcg ccattagtta ccccggacct gatcagcctt 60

tgtgcgttgt ttccctgaat tatttatgcc gtagcaggtt agtcaggtac aaactcgcgc 120

agtaggccat atcttgttgt taacttagtt ggaaggatta ctactgcttt acatatcctta 180

ttagttgggg aggctctgtg ttctttcaac acctttcttt attgtttcac tgaattgcta 240

ttatctcctg taagaatgag aaagattctg aaacaccagc gatgaatttc aaagtaatag 300

gaatgctttt t 311

<210> 5290
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d12b1

<400> 5290

atgatgctgg acaagctgtg ggacgacgtg gtggtcgggc ctcgcccgga gacgggcctt 60

gacaagctcc gtcgtgccgt cgtcacccaa ccccttgcca tcaatacagt tgcagggagg 120

gcgattaaag cagtctccgt cgatgcctac gaccccgacc acgtcggaga cgccgtcttt 180

cgttacgccg tcgtgtggtg gaagctttgt ggcggagcgt ttttcacccc gggagca 237

<210> 5291
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e02b1

<400> 5291

gctgcgccgg aggggccagg gcgtcgggat cctcgtctcc aagcacccca aggacaccag 60

cgcctccttc tcgctgcagg agccggccga ggtcatggag ttcctgctcc gcctcgtcga 120

gtggaagcag ctctccaggg cgcgcctcag gctgcggcgt caggccgacg cctgatccaa 180

cggccggact aattaattca ctacgtgtag cttaattagc tagttaatga atccccctgct 240

catccgaaca aagccaaagg ctacgtacgt ggatgggaag aaggaacgta ctatggcgaa 300

cctgtggctg tggagcattg ttgcgccaca tgttgtgttc taattaaccg cccttctctt 360

tgtggggatg tataccgtac ctaccgatta tgcatgcatg taaattacct ttggtcacgt 420

acaaggggag gaaccatgga ataaagaaag agcaacctga gt 462

<210> 5292
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e06b1

<400> 5292

tccttctata ctaatagctc atgagtcata tgcattttgg cctcttgttg ccaaagatct 60

caactcactg gtcaacttct actctgctgt tactggacaa gaaccagttg catatcttgg 120

tccacggaag tggaacacaa ccgaaagaag cacacagtat gtgaagcttt ggaatggttc 180

agtcagcgaa tcagtgaaga gcgagcccta cctagcattc agcatcctct ttattttcct 240

aaggatattc tcgttcttct tcccaaagtt cttcgcctgc atcaaaggct tgtggcctca 300

atacttccgg cacgccaact ttggagtccc tgccaaattg acgcagctgc tcgaatgtgt 360

gccccatgcc gtggatgtaa ggaagatgtg gagcaaatga ggcttatgtt tggagccata 420

acatgaga 428

<210> 5293
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e07b1

<400> 5293

gggcggtgcc aagcgccacc ggaaggtact gcgcgacaac atccagggca tcaccaagcc 60

ggcgatccgg cggctggcgc ggaggggcgg cgtgaagcgc atataggggc tcatctacga 120

ggagacccgc ggcgtgctca agatcttcct cgagaacgtt atccgtgacg ccgtcaccta 180

caccgagcac gcccgccgca agaccgtcac cgccatggac gtagtctacg cgctcaagcg 240

ccagggccgc accctctacg gattcggcgg ttaggccgcc accagatcag tagctagact 300

gtcgttgttt ggtagtacca gcagtgctcg tggtcctctt gtgtaatggc agaatctcgc 360

tgctcgtaaa cccttgtaga ttggatg 387

<210> 5294
<211> 227
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e09b1

<400> 5294

gatactccct aaatttctat ttcgaacaag ttaggatcgg agcccatcac acatttctag 60

tctcttcatt ttactgttcc atgacaacag cgtttcattt tattcatagg gttttcacta 120

ggcgttttct aaaaaagggc tcccagattc tagtggaaga actaagtagt tagtggcgca 180

atccactaac atgtaatcgc tacctacgaa tatgtaatgt tacgatt 227

<210> 5295
<211> 472
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e10b1

<400> 5295

cgtctgggga agaaggtgcg cgtcaagtgc aacgaggacg acaccatcgg cgacctcaag 60

aagctcgtgg cggtgcagac cgggaccagg gccgagaaga tccgtattca gaagtggtac 120

accatctaca aggaccacat caccctcggc gactactaga tccacgacgg catgggcctc 180

gagctctact acaactagcc ttcggccatt gcaggttggt cacctattgt tgcctgtgat 240

gatagttttg gttgcattcc agtcccagtg ttttcagagc tcaatgtgtg ggctgaactt 300

taacgagcta ctatataagt agtgcattat tgtacccatg atgatttatt gacagcctga 360

acatactttt tctgtgatcc acctgcgaaa ttaatgtgct tgatactgtg aagtttataa 420

attacataaa ctggttttac ttgggtttgg ataaaaaaaa aaaaaataaa ag 472

<210> 5296
<211> 197
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e11b1

<400> 5296

ctggagcttg gagatgcttt ctttacctgc tgataagacg tcttgttatc taataaaaat 60

aatttgtaca aataaattta aacaaaaaaa actgcagaaa tagacaaaaa ttactaaaaa 120

aaacttgaat tccggaattt atctcagaca caaaacctct taaattaaag gggggccccc 180

tttaaaggaa ccaattt 197

<210> 5297
<211> 210
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e12b1

<400> 5297

atcttttta ttttaccaca gaaacatccg taaagcgtgc ggggatgccc ttgcagctct 60

gagtttcagt tatgtagttc tgctgtcagg cactcgggct atgttgtggc gtcgccggtc 120

caggactaag ctgaattttg tttgttcgtt gcaacagaag cttatctgta aatagctgaa 180

ctaactactg cttacaggac atcacagttt 210

<210> 5298
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f02b1

<400> 5298

ctttttattt tcttcattcc ctctctattt ttttttttt ttttttcgg ggacaaacat 60

tttcttcatt atgcggaagc aacagagatg gccataaaaa aaattgaaca tgttcactta 120

cagcagcaca gttaactact tcaaccgaag ctaaaaatat ccatccctcc attgggcccc 180

ctcattttga ttagggtaca acacatactg ggcaactaag cccacggaac aattatttcg 240

gagcccaaat ccaaaaatcc cggtcacccc ttggagctta ccaccgttgc aaccaccgcg 300

agatacacaa accggaaggg attaataccc aggtctcaca cccccacctt gggggggccc 360

ccacggcccc tcttggcagg agcggtgccc gcccccggga cccgaaa 407

<210> 5299
<211> 501
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f04b1

<400> 5299

aaattattag ttacttggcc atcgctttga tataggtttt tgcccctgcc cttcctatgg 60

ttgcagattg ttctttagcc caggcctagc tccccatggt tgttatctgt actcttgatc 120

cctgtgctct ctaggtcttc tgtgagtgtg ggttggcaag atataatagt taggagtttg 180

ggcccaaacc gctctgtaca tggagtcagg tcagattctt gtagacagtc tgtttgttta 240

atttgttatg gtctctacaa tttagcttgc aggactggat cttgatctgg tctggaaatg 300

aagcttcata tggtgtgtga acatatggcg aagggtactt gaggcaggtc agtttcccat 360

gtttggtcac attgatttgc tggattcctt atctgtgctt ggtgacctca gatttgagtg 420

gctttaccct aattccttga tttatgtttg gctgatggct gtttgggagc cttcttctgg 480

atggggaaat tttttgaccc c 501

<210> 5300
<211> 463
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f06b1

<400> 5300

cccaattaaa ccgcccacgc gcagccgcag ctataacccc gcatcgtcca agatccggcc 60

ggcggcacaa gaagcggcag cagcggagac aatggcggcg gtgaagcgcg cctacctcgc 120

cgtctacaac tgggccgtct tcttcggatg ggcgcaggtg ctctacttcg ccgtggaggc 180

gctgctccgg tcggggcacg aggacgtgta cgccgccgtc gagaggccgc tccagctcgc 240

gcagaccgcc gtcgtcctcg agatcctcca cggcctcgtc ggcctggtga ggtcgccggt 300

gtcggccacg ctgccgcaga tcgggtcgcg cctcttcgtc acctggggca tcctttggag 360

ctttcccgag accaggacac acatcctggt gagcttcttg gtcattagct ggtccatcac 420

cgagattatt aggtactctt ttttcggcac aaaagagctg ttt 463

<210> 5301
<211> 205
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f07b1

<400> 5301

ttatttgtaa tcatacaccc tctcagtaag tcattaagac gtcttaaata cttgtgtatt 60

tattatcatt ttgcttagtt cttctgttgt ttttgtagct aagtagcctg ttcggcgatc 120

caatgcattg gaatacttca attttgtagc ttggctgtaa agtgtataca cttttattca 180

ttgtttaata ccaatgtgat gaagt 205

<210> 5302
<211> 292
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f08b1

<400> 5302

caatccctgc gatattggaa attccatcca aggaccatcc atatgatcca gcgagtgact 60

cggtcctttc tcgtgtgaag tatctgtttt ctgctgactc ggttgcttct gataggcgtt 120

gagtagcaac cttgttgata actggggcat cacactttga ttgagttctt cgtggacttg 180

ctccgtgtat ctgtattaaa ttattcatac cattctgttg tgggcgcacc aataaggagt 240

aaacaatttg gattgcacca acgggttaat gtaataaatt cttacttttt tt 292

<210> 5303
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f09b1

<400> 5303

aagcaaaaca tcatcctaaa ggagccgcta ggatgagatg ttcgtgtact acaaccgcgc 60

cagatatagt acactctcat gacttatatt accagctgga ttaaataagt ggcgtcttgt 120

acccaccacc atcaagtcat tccatgctat ataatgtcaa gatcaatcaa gattacggta 180

tgacgcccat gtaaatcttg tggttgtcct gacttacttt tctagcttct atggacgata 240

agtatgtgtg tgctggttgt actatgattg tgtaatgata tatattaaaa ttcctacttt 300

gt 302

<210> 5304
<211> 91
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f11b1

<400> 5304

tttggtttcg gacttgccat ggcaagggaa tgttgcaact gcttggttcg attcgtaatc 60

atgaaccctt tgtggtgtcc tgtgtttgtc c 91

<210> 5305
<211> 309
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f12b1

<400> 5305

gagattgagc gggagctaag cccacccagt aaagccgatg ctaatgcttt cttggtgagt 60

gatcaatgag caccgagcac aaacgtactt ggacctcggg atgttgtctc tgccttctat 120

gtagttcctg aaataaggga gccgcaaggt cgtctgacgc cattcaaacc ggccggtgct 180

cagggtggag tggcacccag taaagctcag ctatctcttg atacatctca caattaaaga 240

gcttatgtgc tattgctcca ggaggtgcta gattaaggct tgcttgtagt tcttggatcg 300

gatgttttc 309

<210> 5306
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g03b1

<400> 5306

tgaagaacca gaggcagggc agaaggcatc acctaaaaag cataatatct tatctggtgt 60

cggatcaaag gtaaagcacc aactagcaaa agtgaagaaa gctatcatag gcaagcctgg 120

gcacacaaaa tctgaattac caaaagcttg agactgcatt caccttagtg tgtgtatatt 180

tttgttacta tttgtacatt tgtatgctgt ttacttgagg tgtagtatga ccgtgatggt 240

actagtaaac atcaaggttt cgctatggcc attgcattga aatgttgtgt gattgaagaa 300

cgatttgtaa attaaaaaaa taaaaaaaaa aactcattct aaatataata aaaaaaataa 360

tacatg 366

<210> 5307
<211> 243
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g05b1

<400> 5307

aaacataatg tatggaataa atcatcttat tgagcatgtt cttgcatcac aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag aatgaaattg 120

ataaaaaaaa aaataataaa cagaacaaaa gcaaggagaa taataaaaat taaaaaaaat 180

aaagcttatt caaaatcata aagtgggggg gtctgttcaa agggggataa aattcattcc 240

ccg 243

<210> 5308
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g08b1

<400> 5308

ccacgcgttc ttttcgcgta cgcccacgcg tacgcccacg cgtgcgaaga cgcttaattc 60

gttcgtgcat gttcttcttc ttcagttcct atcgcctttt gcctttcgtt gttcgtgcgt 120

tggtgttgat cgacgtgtgg ccttgttgtt aattgtgtag ctgctctgcc gcagctttac 180

ctaaagatat tattgtcgtt gtattttggg gtgaatcatg ctaatactat gtggttcttt 240

ttttgcttgt attattactg tcctagtaaa aaaaaaaaaa aaaaaaaaaa taaaaccaaa 300

aaataaatta aaaaaatata ataaatatat aacccagg 338

<210> 5309
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g09b1

<400> 5309

tttcatatgg gatcgagagt ctttctcgcc gcggccgtgg tggccgtggc cgtggcggcg 60

gcgggggcgg acgtggcggc ggacgtggcg gcggaccggg cggagtgctc ggacaagctg 120

gtggcgctgg cgacgtgcct gacgttcgta caggggcagg ggcaggcgcc gactccggac 180

tgctgcgggg ggctgaagac ggtgctgcag accagcccca agtgcctgtg cgtgctcgtc 240

aaggaccgtg acgaccccgg tctggacttg aagctcaacg tcaccagggc gctcggtctt 300

cccgccgtct gcggcgcgcc cgccaacatc tacgactgcc caaggctact gaacctgccg 360

cccaatttca aggacgcgga ggtcttcgag cagtttgcc 399

<210> 5310
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g12b1

<400> 5310

atcgcccacg caccagcaca accgatcgct gatctcagat cacctgcttc tctccttgct 60

ccgtttggtc tgctctgatc ggcatggcga cccagatgga cgcgtacgtg atgttccgcc 120

gcgccgcgga gatgatgatg gtggcgccgc ccagggccgc ctacgacgag caggacgagg 180

acatcggctc cgcgtccgac tccgagtgca cgtcgcggag ctcgacgtcc tcttgctccg 240

acctcgccga cgacgccagc tcctcgtcct cctcgagctc cggtgaccac ttcgagatgt 300

ccgccctcat gacgcagctc cccatcaaga ggggattgtc cttgttcttt gacggcaagt 360

cgcagtcgtt cgcgtcgctg gcggccgtgg ccttcctgga ggacct 406

<210> 5311
<211> 538
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073h01b1

<400> 5311

cttacgcgtc cgcggcctca tctcctcccg gaagaccgct gtggccattg acatattgaa 60

gctcatgtcc tcgacattct tggtcgcctt gtgccaggcc atcgacctcc gccatcttga 120

ggagaatata aaggaagccg tcaagagttg tgtgaagatg gcagccagga aaacactgag 180

caccaacaac aatggccatc tccacaacgc acgcttctgc gagaaggacc tgctgctcac 240

gattgaccgc gaggcggtgt tcgcgtatgc agatgaccct tgcagcgcta actacccact 300

aatgcagaag atgcgtgcgg ttctcgtgga gcacgccttg gccaatggtg aggccgagcg 360

caacgtggag acatctgtat ttgccaagct tgccgcgttt gagcaggagc ttcgtgcagt 420

gctaccaaag gaggttgagg ctgcctcgac ctccgtggag aacgggaccc gcgcgcaaca 480

gaaccgatca ccgaatgccg gtcgtaccca ctctacaggt tggtgcgcaa ggagcttg 538

<210> 5312
<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073h11b1

<400> 5312

ggggtagccg cccctgacat ggatggcacg gactccgtgg tcgatggacc agctcccgcg 60

cctgcctctg gcgcgtcagc tgccgcccca gctgttgcca tggcgtccct gaccgcgctc 120

gtcttcggct acttcttctg aggccatgtc cttgtgcgcg cagttatttg ggatttttct 180

ttggttcgtc tcgtgttcat acatgatatg agtacatatt gtaaattaca tgttcttttc 240

tatttaaata gaaaaattgt tgggtacaca catttgttta tttgataaag gatgctttt 300

agt 303

<210> 5313
<211> 79
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a01b1

<400> 5313

gttgttatta cctagcgtgt gtgacgaatc tcaagagttg gttgtcattt ggataagggg 60

aaataaaaca aacaaaagc 79

<210> 5314
<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a02b1

<400> 5314

cccattctat cgcccacgcg tccgcccacg cgtccggaag cgtcagtctg ggttgacgat 60

catacccggt cgagtagtcg gcacgattaa ccttatggtt gtttgtcata tatggctact 120

gttaggatgg gcactagtat aacttggtat aattgttaaa aatgactatc gcctatctag 180

tgttgattgc ctcgtggtat atttgaagta aactaacgac ttggagcgga catttctcaa 240

gtttggccca aaaaaaagaa acataggtgg ctgtgctaaa tac 283

<210> 5315
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a03b1

<400> 5315

cccattctac cgcccacgcg tccgcccaca cgtccggcgg cgctttttga gagggccggc 60

ctttttttt ctttttgatt gaaacacata aacttgtttt aatcaacatg aacagaaaat 120

aatcttaggc tctaactttg gccatttggc atttgcgtgc taactagaga caaaggggat 180

taaggaggtg gtcgtgcata tatgtaggca ttctcggact tgggattcta cttgtgatta 240

catcacgccg gtccatggac acatcgctgg ctgtgctcat tccatacagc cgtcgtcaga 300

gcccacgggc tacgaacacc ataccgccgg ccacacagta aaaccgagcc agaggccttg 360

ctgcgc 366

<210> 5316
<211> 116
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a04b1

<400> 5316

ccctcatact ctacctaatg tgctcattct ctcccggtgg tatttttat actttcatgg 60

ggtgctttta tcctcctctc aaaaacatcc attcgtctgt tgtaatcctt atactc 116

<210> 5317
<211> 314
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a05b1

<400> 5317

ccctaatatc caaccaaaca cctcatcact gaccgtgggg ggttttatta cactaggggt 60

gtctacacag cccaagccca atgtgaggcg aaggaccagc cctaccaaga atcacagggc 120

ctagatggac ctcatgccaa gctacgacga agatttagac cttccttcat aaagcagata 180

acaggcatca gttcttttaa aagtagaaca ctgaagtcat tcaccactca acatggcctt 240

ccactctaat aaatcatgct gcacgcccgc gtgcatgcga aaatctaaac attatattat 300

gcactcaact actt 314

<210> 5318
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a06b1

<400> 5318

cacaatcata atccacatcc ttacaaaaaa aaccaagaga gcatatatac aaacttaggt 60

gaataacatc caccagcact ttgaaaataa caaggcggga tacgccgaga ataacaagaa 120

caatgctgca ctcatccaca ctgataccgc agagtatata gctataatca aagcaaagaa 180

atggcaagag ctcctcaaag gcgaggatat ttacaccaac tacccggcca cctgacacta 240

tgccaagaaa gacataggat gcttccgggc ctaaagtaaa aacctttcta attcacaaat 300

gcatcaagat tcaatgaagt gttcatccct ggctgcttgc ttagttactt cttactttca 360

tccctcccaa gtgagtagtg tacctttttt gtaaaggcat ccaatctcta tatacacata 420

ca 422

<210> 5319
<211> 246
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a08b1

<400> 5319

ttagtggagg ccgaccaacg caccatgctc cagggggga ttttttgagc ttatgtgggg 60

ttaaccacac ctatgcacga tataccgtcc acatgatgga acaatgcatt ctcatcttta 120

tcacgatttg ttgctagtta ctactataac tgcctagatt ggggaactgc accattgtat 180

atgcctattc gatggccagt gcatcagata tcacggagtg aacaccacac ttaaattcat 240

tcaccc 246

<210> 5320
<211> 501
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a09b1

<400> 5320

cttatgcgtc cggtcgacga gtggggagga aagggtggtc atcttgacaa ccaactagga 60

ggagcgtctc gacccggcac tcctgcggcc tggcaggatg gacatgcaca tacacatggg 120

gtactgcacc acggaggcct tccggatcct tgccaacaac taccattccg tcgactacca 180

tgccacctat ccagagatcg aggcgctgat ccaggaggtg acggtgacgc ctgcaggaggt 240

cgccgaggtt ctgatgagga acgacgacac tgatgttgcc ctccatgatc ttgtcaagct 300

cctagagtta aagaagaaag aggccactga gatcaagact gaaagtaagc aggcggagga 360

gcagaaagac ggcactgaga agatcaatac tgaaagtaag caggcggaag agaagaaaga 420

tggcgatgag atcaagactg aaagtgtgca agtggaggag aaaaaagatg acaacgaggt 480

ggtgctgaag aatgagttga c 501

<210> 5321
<211> 480
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074a10b1

<400> 5321

tttatgcttc cggaggaaga ggaggagtac tgggtggttg tatctgcagt atttgagggg 60

aaaaaaacct ccaccctgac atctgaatcg agcaacggtg atagatcaac ttccgacctt 120

ccaatctcta ctcccttgag tgatcccatc aacaacaagg tccatttgct caggacaatg 180

cttcaatggg aggagcaagt acgccgtcta gcatcggtag cggagagaag tctcggctcg 240

ctgaccgatc caattcttcg tgaggtggcc atcatctgct ggccgtatgg gaagataatg 300

aggatgagta ctggcagcac agctgctgac gccngtagaa gacatggtgt ngattggaag 360

ctgctttggg tgaatggcca acttgtgctg cctcaaaccg agctcaanga tggagatata 420

gtggaagtga ggacgtagta attctcaggg taattgatca gattggctca ttgatacata 480

<210> 5322
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a12b1

<400> 5322

aaaatgcaca gatgcaaggg atagtcttca tgttattcca gcatttgcag ccagatatcc 60

taataatgta ctcgtaccat acaaacattt cctgagtttt acaacttaca acaacaggcg 120

ggtggatcag cggcatatat ccctcttagg tgcagaaact tcaagccaga ccaaaattta 180

ggggcggctg tctgcaccga cagtccggcg ggctcattca acgtgatcgt ctactacggc 240

ttggttgttc gagaacaatg tctccctttt cttggggaaa ccaggggget ccatacctgg 300

gcctcggtac ttcagctctg gagtggctcc tctaagccca ggctcggccg aaacaggtcg 360

atacggaaat accgcttgcc cagcatacct agtaggggac acataccttc tcggagcact 420

<210> 5323
<211> 479
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b02b1

<400> 5323

cttttcattg cgaaaggtat cccggcggcg atggcggcgg ctgcggcaag gtccggatcc 60

cggcgcttgt tctccatatc cgccctggtg ccaccgaagc caccgagccc tcccccgaag 120

gcagatccct tcgccagcct ctttgttccc gggttaagca agcgaacagt agctgatgga 180

cttaggggag cttttgcaaa gtctggtgaa gtcgtgcatg gttctctttt gacaaacctt 240

ccagcatcat ctgtaaaaaa atcaaggtgg tatatgatca atgcaaaccg ttcaggtcct 300

ttgacagtgc gtaaagaata ccgcaaagta cttccttctt tcataaggcc atctgcatct 360

tactccacac aagcttcaga aaaaagacca aaacaggaga gaacagactt gacgactgtt 420

gaagatccct ttaatgcgcc tacctacaat atacctgaga agccagtgac atttgtcga 479

<210> 5324
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b03b1

<400> 5324

ccctttctat cgcccacgcg tccgcccacg cgtccggctg tttggttttg ttgtgcagct 60

gtgatggaaa cagaagggtt taattacctg gaggagactt gcccatcctt gctgtctgat 120

ttgttagcaa ccgtcgcagt agtggatgat gatccttcat ctgttaaccg gaaaagggga 180

gtttgtatca acgaagatgt gaatcccgtt gaaagcgttg aggctagtga caggcgcacc 240

cgcaggaggg tttaggcgga ggctgtcaac taatgtagct atttgctgtc tcccatgaat 300

tttactatgg ctggagttat gtcaagtgct ctgtgacagg aactttgatt tgggtgagag 360

caacttgtga ataatctcca gcattgacgg ctttctgtgg cattagttgc aac 413

<210> 5325
<211> 225
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b04b1

<400> 5325

ctccctagct gtatccattt tcccaaagaa atatgaggtg gccttttaca ggcctgtgga 60

gaatgagtga tatgtaacta caatgcatgt gttcctttgc aactgaattt ggaatcttcc 120

aaagataaaa ctgtcatgga gatttcgcca gtagtctgtt tagtgggtat ctaagaaata 180

tttgtaaatt cttggtcgtg aaaaaaaaaa aagggtgcgc gatct 225

<210> 5326
<211> 558
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074b05b1

<400> 5326

ctcatactcg ccccgacaaa tggcatctac ggtgggggtg ctcttcgtgg ccgcgctggc 60

gtgcgtgctc ggcggcgccg acgcgaagct cggcaggctc gtcgtcagcg gcgtcatgcc 120

gtgcaacacc ggcagcctca tagacatcgc cacctccccc gtgttcccga acgcggaggt 180

ggagctgcgg tgcgcggggc aggtggtggc cggcgcgacg accaacacca acggctcctt 240

cacgatggag gcggacctga caagcgcgct ggcggcgttc atcggccggt gctcgctggt 300

ggtggacacg ccgctcatca agtgcgacgc gcagctgccg ccggcggaga agctgctctc 360

ctacctgcag ggcccgctca ccaggctgct cggcggcatc ttccacctct tacccgcggg 420

cttctccttc cacagccgat gagattagta gttcactgtg tcgtcggtcc aaccatctca 480

gcatactgag atctggctaa ttacctcttc tatctntagt ttggttngaa atgaaatgca 540

aggcangtta caggagct 558

<210> 5327
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b06b1

<400> 5327

gaatatggct cgtcgccgac gtcggcaaaa cggccggggg gaggttgaag agcttgaggg 60

agtgggagaa ggccccctac gtggccaagg ccaacaagct caagggcgag tacaacaagg 120

ccattgccgc ctacaacaag ggcgagagtg ctgctgctgc tgccccaaag aaggcggcgg 180

ccaaggaggt agaggaggac gatgaggagg aatccgacaa gtccaagtcg gagatcaatg 240

atgacgatga cgatgagggt agcgacgagg acgaggacga tgacgagtga agctgacaat 300

gcgggagctg ctgtgcgaga agcgacctga gctgtgtgcg gtggtgtcat aaggagccta 360

tccatctcca ctagaattat cccaagtttc acttcacatc gtgatgctgt tttaccttat 420

ttcttgtcat tgacctgcta taacggatag cgctccctgt 460

<210> 5328
<211> 538
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b08b1

<400> 5328

ttattgggtg gctgccattg ctctccacac catccaagct cgagctccca tttcatcacc 60

actctgctag cccgagtctc cctcttgacc caccgtcggt ttcaggcctc gaaatcctcg 120

tcccagtctc tttctccttt caagaagaat ttctttgggt tgagggagct gctgttcttg 180

gtaggacagg ctaggccaga tctgggggag agggtgggtc tgttgttccg cttgaaatct 240

ctgggttttg ttgcgctgga ggttcttgct ggccatggtt tgtccaggca tgctgaggcg 300

caatctctga gctttatgaa gatcgccact cacctgcgcc ggtgctgctt cctacagtcc 360

ttctccgacg tcttcctcta ctacttttat gtgatctcat aattgcccct ctacaatccg 420

ccgtcgctag cagtaaacta tattcctcct tttcttgttc ttcttgcttc ctttttctgc 480

gtcaacaagt gataaataag aaccgtagca gcagcatcat cagcagcagc agtagtag 538

<210> 5329
<211> 220
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b11b1

<400> 5329

tgtaatgtac tgtagtatct aggatggggc attctgtcat tcaggaacac gcgaaagtgt 60

gcaatccttt tttcttttcc ttattactat gcgaaatgtt cgttccataa tttgcatgga 120

actcgattcg attcaatgag aaaaatcaaa gtcaccgcac attctcagtt caaagctgaa 180

gagcgcggag caagtggtgg ccgacgcgac gaccaacacc 220

<210> 5330
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b12b1

<400> 5330

cttttctccc agacgaggcg acaccggacc aaggggggggc ggtctgcggc gatgggcggc 60

ggcagaagcg cgcacggcgg cacgacctac aagggctaca ccatccccca caacaagcgc 120

tggcacacca tcgccggcaa gggcctctgc gccaccatgt ggttttggat tttctacagg 180

gctaagcagg atggcgctgt gctcttgggt atgcgtcatc cttgggatgg ccatgatgat 240

cacgcgcatg gtcatggaca tgcacacgag catgaggctt cgtcgtcgtc atcgccgtcc 300

cattgagctc gacgctgaaa gcggctgaca gagaccctga cgcgtcgcat gtttcgacgc 360

aagtctctgc taataaaaaa caatcacaac tatcattatt cacccctgtt gtttgcaagt 420

attttttta gcacacaaac tggccttgtt gtgtattttg gtttggagct gtggccgtccc 480

gtggaatgc 489

<210> 5331
<211> 140
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074c01b1

<400> 5331

cccttgcttc ctaaaaaaaa aaaaaaaaaa aaaaaagagg gatttttta aaaaaagggg 60

gtgttttaaa aaaaaaaaaa aataaagata ataaaaagtt acctcaaaaa taccaattca 120

actttgtggg gcgtccttt 140

<210> 5332
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074c03b1

<400> 5332

aggttgttcg tctcaaactt ccttgtccag ggtctggaga aggtgttcag ctacagcgag 60

atcctcaaag acctcaagaa agagttttgc tgcaatggta cagttgtcca ggacacagaa 120

cttggacagg tcattcaact ccagggtgat cagaggaaga acgtctcaaa cttccttgtc 180

caggccggca ttgtgaagaa ggaacacatc aagattcatg gtttctgagc aactgccagc 240

tccatatcag agtctacatg caaagcagct atatattggt ggtgcagtat atttagttgt 300

gtgctagcgc tagcaggcgt taccagcttg cgcgctctga gtatacagaa aatctagcat 360

agcccacctt tctgcgtgta tgcttggtac cgttgtgttg aaactttgta aggagcaccg 420

tctttagatg gcttgttacc ctcttccatc aaggttgaat aatatatgct tttgtaagcg 480

tgggt 485

<210> 5333
<211> 540
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074c04b1

<400> 5333

gtcttgttca gggtcaggtt cagcgtccaa ggatgggggg gggcggtggg caagaagggc 60

tcagaagcga gaggctgccg acaaggcggc tgcagagaag cacctcaagc ttctgcagag 120

gctgggccgc gggaaaactc ccgaagcgcc acctgaagca ctggaatcac tggaggttgg 180

tcctcctgtg atcgagtgat ccatcagcct ctgtagataa cgctgctgcg gggaacgctg 240

cagcccctgg gagccccctc caataatcct cccggtgcga agaagaggaa accgggcctt 300

gtatcctggc aactttgtcg cgttgtacag taatttagct tcgagtcact cgttaggtcg 360

gtcatcggag ctgctaccca gtctgctcca gatgcagcaa tgaggtcggt cggtcggttt 420

atcccacact gatagttgtt taattcaaaa aggtcatgta ctcgtgtcgt attaggggca 480

caaaaattgc ttgctgtgct aattttcctg caatgtggca actgtggagg ttgttcatcc 540

<210> 5334
<211> 533
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074c05b1

<400> 5334

gaatttttgt gaattttcgc gggtgtcgtg tgatcagagg tcttgagtcg gaatgggggt 60

ggagatggca agccagcacg gggcgctgct gaaggtgggg ctgttcgtgc tggtgcangc 120

gctggtgtac ctcatcctcg cccagtcctc ctccgtcttc tccaccacca agaccctggg 180

gctcccgccg gcgcgctccc tcagcgcccg ccgcatggtc gcactgctct ccgacctgcc 240

gctcggcggc gaaccctcgc cccgcgccgt ctccgtggag ccgtcgtcgc ccgtgcccgt 300

gcacgcccac cagaagaagg attagttgac agagctggga ggtggctact gtctagcgag 360

cgagcgtatg cacgttgttg gttccgtgcc aatggttggt gcctgccgtg ggagttttgct 420

agctattcac gccattcttt ggtggttcat tgattggtcg gtttggtctt tgagattgca 480

tatatgtaaa ctgcacgccg ttttggattg acaaatgacc gtctaagatt ggg 533

<210> 5335
<211> 536
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074c07b1

<400> 5335

tttattcttt gacggtttac ggcgatggca agcggaggag gagtttccaa tacgttggtg 60

atttggttga ggggttgatg aggctgatgg aaggtgacca catagggcca ttcaacttgg 120

gtaaccctgg tgagttcacc atgctggagc tggccaaggt tgtccaggac accatcgacc 180

cgaatgcacg gatcgagttc cgtgagaaca cccaggacga cccgcacaag cgcaagccag 240

acatcaccaa ggccaaggag cagctcgggt gggagccgaa gatcgccctc cgtgacggtc 300

ttcccctcat ggtcactgac ttccgcaagc ggatcttcgg cgaccaagat agcgccacca 360

ccgccaccga aggccagtaa agagtagacc ggagtactat actttgaaat tttggtggcc 420

tgcttctagc ttgcttcttg gttaatcccc ccactgacag agctatggcc acgtagtcgt 480

cgtcgagagt tttactgcta aataccttng ttgttgatgt aatgttattc attttt 536

<210> 5336
<211> 288
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074c08b1

<400> 5336

ggactagcat cgcctgaaga agaatggttg cgagggtatg gtcgtttaat tttgctatat 60

acatactatc cataagacct tgtaagaggt acccaggccc cctgggccat cacgatgggt 120

atctcgtaaa actctgaagt gtgtatgtat ggtgtgaggg ttgtcagaca ctcgttttgga 180

taagtgaact tctgattgtn aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaata taaaaaataa accaaaaa 288

<210> 5337
<211> 465
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074c09b1

<400> 5337

gtgaggagct gacgctggtg ggatactggt cgagcccgtt cgcgctgcgc gcgcgcttcg 60

ccctcaacct caagggcctc ccctacgcgt acgtggagga ggtgggcctc ttcgacggca 120

agagcccgct cctcctcgcc tccaaccccg tgcacaagag ggtgccggtg ctcatccaca 180

acggcaagcc cgtccccgag tcgcagctca tcgtgcagta cgtcgaagag gctttcccgg 240

ccagctcccc gcgctttctc cctcccgacc cgcacgagcg cgccgtcgct cgcttctggg 300

cctcctacgt cgacggcgag ctgctcaacg cgtggctgcc cgtctacggc ggacgcaccg 360

gcgaggagag ggcacaagcg gcggngcggg tcggcgccgc cctggagaca ctggagcgag 420

cgttctggga gtgctccaag gggaagggct tcttcggcgg ggaca 465

<210> 5338
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074c10b1

<400> 5338

gccttcgcca aactcgcgga ccaatcgaag gctgggggg agcgacaatg gcccgccgct 60

gcggctgctc cgtcggcgcc acgctcctcg ccctctccct cgccgtcctc ctcgccgcct 120

aggcggtccc cggggccgcc gggttccacc tcggcggcga cgagagcggc ctcgtccggg 180

gcatgctcgc cgccgtccgc gagcgggccg aggccgagga cgctgcgcgc ttcgccgtcg 240

ccgagcacaa caggaagcag gggtctgcat tggagttaca cgggttgcga acgcgaaaag 300

gcaagcggtt gctgggacct tgcatgacct gatggtggag gtagcggatt ctggaaagaa 360

aagtatgtac aaggcaaagg tatggccgaa gccatggcaa aatttcaagg cagttgtcga 420

gattcgccat gctggggact tgcagaatga gtcttctggt ggctctgatg gtagcactgt 480

gcaagctatc ctcaagct 498

<210> 5339
<211> 495
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074c11b1

<400> 5339

cgtccgccca cgcgtccgaa agctgcgggg gcgctctcat aggaggggg tgagcatcgg 60

aaccaagccg ccgacgccac catgggtatc tcgcgtgact ccatgcacaa gcgccgggcc 120

accggaggga agcagaaggc ttggaggaag aagcgaaagt atgagctcgg ccgtcagcca 180

gccaacacta agctttcaag caacaagaca gtgaggaggg ttcgtgttcg cggaggtaac 240

gtgaagtgga gggctctccg tcttgacact ggtaacttct catggggtag tgaggctgtg 300

acccgcaaga cccgtctcct ggatgtggtt tacaattcgt caaacaatga gcttgtgagg 360

actcagaccc ttgtcaagaa tgccattgtg caagctgatg ctgccccctt caagcagtgg 420

tacctgactc attatggagt cgaaatcggt aggaagaaga aagctgctgc agctgccaag 480

aaggaacctg ctgag 495

<210> 5340
<211> 573
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074c12b1

<400> 5340

ttgtttgcaa agacaatcct caacagagac acaggacaca ctcacgccat gtcgtggaca 60

tcgtccaagc cgaagagagg aggtggcctc cggggcccca ggccgcagcc gctgagcctg 120

tcggcacggc cgtccaagaa gccgcgcgtc ggcggccacg ccggaccagc tgccgggccc 180

gtgatcgtgt acgagcgcac gccgacggtc gtccacgccg acccacacga gttcatggcc 240

gtcgtgcaga ggctcacggg caattgcaag cagcggccgt cgacggcggc gatgacgttg 300

ccaccagagg cgacgtccgg atccggagct agggacggca gggcctcgac gtggacagca 360

gcggacgctt tggttctcag gcttggccag cagcagcgtg cgccgtgtgg tgctcatcat 420

ccggcacctt ctgcttcccc ggctgctgca tcatcaccgc tgctgtcctc gagcagcttc 480

tttttttcccc gaccaccatg caggcgatac gggagctcat cagctgagag tcagcttgtg 540

aaatttgaag atcgatccgg cctggtgtga tca 573

<210> 5341
<211> 557
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d01b1

<400> 5341

cccttgttat cgtccacgcg tccgggcaag gtccgggggg gtatgttcca ggccaggagg 60

ggtaatatct gcgccaatca cctagtgatc tcgaccacga agatgcagga acacgccggc 120

agcgacaagt cctgtgtctg gcacgcggca gactctgctg acggagaact taaggatgag 180

atgtttgcca tccggtttgg caccgttgag aattgcaaga agtttaaaga cttagttgat 240

gagatcgctg agtcgcttgc aaagaatgaa ggcggtgaaa gcgaagaagg ttcttccgca 300

gctggactgc tggagaaact tagtgtaagc gaaagcaaac ctgaggaaag cgcatctaag 360

gaggaatcaa ctgatgctag caaggagaca gaaaccaaag ccgcgacagc cccctcagag 420

tagtgggcag agcaacgccc gtcacaatgg taccgctgag catagctcgg tggcaagagt 480

cagtttgtcg gtccttcctg ttgacggaag ttggtagtcg ttgaccatga aatatgctga 540

gaacttttg agacagt 557

<210> 5342
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d02b1

<400> 5342

ccctcgcttc cggtttattc gaagcgatat ggagcggtgg gtatcatgtc tgatgttgat 60

agttatggaa tgatggttct cgagatggtt ggtgcaaggg ataagaatat cagtccaaat 120

actgaatcta gcagccaata tttccctcaa tggatttatg aacatctaga tgaatattgt 180

gttagtgctt ctgagattaa tggagaaatc acggaggttg tgaggaagat gatagtggtt 240

gggctgtggt gcattcagtt acgttctaca gatcgtccaa caatgactag agtcgtcgag 300

atgcttgaag ggagcacaac tggccttgaa ttgccaccaa aagtgctctt gagttgatag 360

gtttatattg ttctcgccaa cttactccag tattgcctaa tctgtaaaca gactgaaaat 420

tttaaatttt ca 432

<210> 5343
<211> 180
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d03b1

<400> 5343

gccttcgtca ccaccgcacg gcgcggcgcc atggatccat gatgattacg acaagaagct 60

gcccattgat gccgctgctg ctaagaataa ctagtagtac cgctggaggg atttctccag 120

ttcctgcctc tcattttatt cggatgaatt tgatcgattt tgaatgaaat tctcattttt 180

<210> 5344
<211> 423
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074d04b1

<400> 5344

ccttagtcat tcacgaaact cagcgtactc nctaanggaa gattgtatgc ttatgcgggc 60

gcctatataa aggtttctct tgaagagctt gcacctaaaa agggccatga ttacgtctct 120

cagctaaccc caactgatat tgctgtcgag gccctgcaaa agattaagaa ttttgtcact 180

gagcattcca tggccagtgg cccattccac gacttataaa ttggtgccat gagacgaacg 240

atgcaatcct tgtaggattt ctgcccaatt ttgtttgcac cgtgtatctt catttttgta 300

tcgctcaaca ttattgattc attctttata ctgaaaaagg agctgtgctg aagcatgctc 360

tgaaacaata aaaaaatagc ggattgagct aatgttaaga gctccatggt tattagatca 420

ttg 423

<210> 5345
<211> 463
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d05b1

<400> 5345

cccatgcttc cgggctagtg gtagctccag tgtctggaga acttagacga cctgcggggt 60

gcttgaccaa gcacctcaaa tcacattaag tgaaaatgcg gagctctcta atcaggcgac 120

cacctatgat gatgttcagt catcgggtgc tagttctttt atacctatgt ataatcgaac 180

tttttgtaga ttgaatcggg tgttctatac gaacaatcct ggagatgctt tggtctcacg 240

tgctcctgat attgcaaaat ttcaactgga aatagatagt tcatctggca actttggtgc 300

aacatcttct ctccatagat gtgcatctga tgacttccat ttctcgtttt ggttaggagt 360

tcccacgatg ggatggttac aaacttaaag tccaagtgac tataaaagaa acaacaaaga 420

catagtaaaa tgtataaaat tactcagctt tccccccacc act 463

<210> 5346
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d06b1

<400> 5346

cgcttcttga ccccgcacca accagcgccc agccgggggc ggttaaggag acggagcagc 60

ctcagccatg ggtcgcgtcc gcaccaagac cgtgaagaag acctcccgcc aggtcatcga 120

gaagtactac tctcggatga ccctcgactt ccacaccaac aagaaggtgc tcgaggaggt 180

ctccatcctc cagtcgaagc gcctccgcaa caaggtggcc ggcttcacca cccatctgat 240

gcgccgcatc cagcgcggcc ccgtgcgcgg catctccctc aagctgcagg aggaggagcg 300

tgagcgccgc atggacttcg tgccggagaa gtcggcgctc gaggtcgacg agatccgcgt 360

cgacaaggag accatggaca tgctggcgtt cctcggcatg gccgacctcc ccggcgttga 420

gcgcgccccc gaggccacc 439

<210> 5347
<211> 524
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d07b1

<400> 5347

ttttcatggt gggattagga aaggaagcgg ttgcaggtat tgttgcagta cagggccggc 60

ttcaaaaatt gacattacaa cgcctgattg cgatggttga ggccgagaga acttatcatc 120

agaaagtcct ggagatcctt gaccatttgg aagaagaaat ggtgtctgag cgccaaaaaa 180

tcgaagcacc tccacccccc gcagcagaga gttttatgtc accgccacca ccatcatatg 240

acgaagttaa tggcatgttt gcctccactt ctgctgatca ggcagttaac tctgtcgact 300

tcttcctggg agaggcgctc gattccttcg aggctgagag tgagtttgag cttaacttat 360

cagttggcga catcgttatc gtccggaaga tatcaagcaa cggttgggcg gaaggtgaat 420

gcaagggaaa agcaggatgg ttcccacatg cttatgtcga aagacgcgag cgtgttctgg 480

cgagcaaggt ccctcatatt ttctaggggt tttgaggagg aaca 524

<210> 5348
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d08b1

<400> 5348

ttctctcgtc cgggggttgg cttctcctcc cggtcgggtt cgttttctgg ttcgggtcgg 60

gttcggttcg agagagaggc cgagtagcta gcctagtcta gggtttcggt agagacgaag 120

ggagatccat ggcggagacg gagtaccgct gcttcgtggg cggcctcgcc tgggccaccg 180

acgacaacaa cctccagcag gccttcagcc agtacggcga gatcctcgac gccaagatca 240

tcaacgaccg cgagacgggg aggtcccgtg ggttcggctt cgtcacgttc ggcagcgagg 300

agtcgatgcg ccaggccatc gaggagatga acggcaagga gctcgacggg cgcaacatca 360

ccgtcaacga ggcccagtcc cgccgctccg gcggtggggg cggcggcggc ggctaccgcg 420

gccagcgcgg cggtggcgga ggctaccgcg gcggcggtgg cggctaccgc ggccaggcg 480

gcggcggc 488

<210> 5349
<211> 370
<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074d10b1

<400> 5349

gatagacctc caagaataaa tgacactntg gtagtttatc tcactgaagg gggctgtcgc 60

acaagaggtg agattcttct tgggtacaat tcagggccac cttctactgt gtcgagtactt 120

agtacttacg aggtacaaac atcataacaa ttgaaccatt atcttttcct gttcgcaaat 180

cagcctttct atttctgtaa cctaagtata ttccgatatt tctgtgatga ttcagaactg 240

gacctatgta tcttattgta ctgggggtgc cataatgcaa ctgtcatgcc caaacatcaa 300

ctgcttttga agtgttatct gcaggttact cacatttctc gttttggtta ggagttccca 360

caatgggatg 370

<210> 5350
<211> 335
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d11b1

<400> 5350

gttcttatct tctgcagaag aaacagtgga aggatgggct ccttaggtta aaggagaggt 60

agaagagagg caagtctgat atggatgctt atggctatgc tagtatcgca ggtgaaaatg 120

atcaggatcc tcctccagaa aatgtttcag ttcccttgcc tgacatggtg ctgcctccctt 180

catttgattg tgacaatccg acataccgtt accgatttct ggaaccaacc tctactgtcc 240

ttgcaaggcc tgttctagat gcgcatgggt gggatcatga ctgtggctat gatggtgtaa 300

gcgcataaga gtcgctcgct ctccttaaca aatac 335

<210> 5351
<211> 581
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074d12b1

<400> 5351

attttgatcc gttggcctcc tgttcatccg ctcgcccctc ccgccgccgc ctccagccta 60

gggtttcctc ccgccgtccg ccacacccgc cgccatggct cgccgcagcg gaggacgaag 120

atcttcccgc cctgctccac gtgctgctcc agtgagaaac ccaccagcgc cagcccgtca 180

agctcctcca cctgctacta cccagagcag cggtggtggt atcatgagcg gaattcggtc 240

cactattgct cagggcatgg cttttggtac tggcagtgct atggcgcaca gggctcttga 300

tgctgtgatg ggtccccgta ccattcagca tgagactgtt gtcggtgagg ctgctgcatc 360

tatgactcca atggacaacg ctgctgatga caagtgtggc aacccttcca aggccttcca 420

agattgcatc aaccactacg gcagcgacat cagcaagtgc cagttctacc tcgacatgct 480

gaacgagtgc cgccgtggag gagcaggagc tggtgcaact ctttaagcta ctatcttgc 540

ttgatggngc ttaatggtcn gaacctgttt cagtcatgat g 581

<210> 5352
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e01b1

<400> 5352

gcctgcttat gatgtcataa ccaagagcct tattgggggg tattttactt tgctggatgt 60

ggattgttct gccttgaatc actgctgagc ataggtgtca ctcagcaagt gtacatgtac 120

ttccgtggaa gtggaaaatc ccaggagttg aaacaacagg cagcacgtgg tgccctgagc 180

tctgcgttct gatgaagaaa atcagcagcc agagttgtat ccagggtagt gagtggacag 240

agacaggatg tgtgccgatt ggaaattgta ggactgcgca tagatgcacc atgcggattc 300

tgatcgatgc aatcata 317

<210> 5353
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e02b1

<400> 5353

ggatgctgcg tggccactcg gaagtgccat cgaggggga tcttcattat aggcaggagg 60

cggtgtagca tcagaaacat caacgtggga gcatgggcat gaccaccgta gaagaagttt 120

tggattcagg ggtctacatt tagccggttc tgagtgtgct tccccctgaa gtcactcatt 180

ttgtctgccg gacagctcga ccagcctccc ctcccataca gtatcggatg atacactagg 240

acatgaggat tacggcacca attgtactgc agccagacgc cattggaagg cgcattatta 300

tttttgtact gatgatgaga gtagacgaga gcattccatt ctttctgact tccacttgag 360

atgggcataa acacattgtt cact 384

<210> 5354
<211> 450
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074e04b1

<400> 5354

actttctatc atggttgtcn aagaaatatt tcctgtagtt ttacaaattt gagggcacag 60

ggtttacagg agggcttaac tactacagat gcatggactt gaattgggag ctttctgcac 120

catggactgg agaaccaata aaagtagcaa caaaattcat cgatggggac cttgacgtta 180

catacaatgt accgggagtg aaagactaca ttcacaaggg tggcttgaaa gcgagcgtgc 240

cgaatctgga ggatgtggtt gtcatggagg gagtgagtca cttctgcaac caggacaagc 300

ctaatgaggt ttcagattac atctgcgagt tcttcagcaa gttctgatta tatcaagaga 360

gtcttggcga acctacttgt ttcggtgctg tttatgtact tataagttgg cgattacaca 420

tggcatgata ctgaattatc tctaaataaa 450

<210> 5355
<211> 67
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e06b1

<400> 5355

aaataataat ataaaaaaaa aaaaaaaaaa aaaaaaaaag aaggatttta aaaaaaaaag 60

ggggttt 67

<210> 5356
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e07b1

<400> 5356

gattttatca catgttcaat tttctgtaat acaacgggat agttcatggg cacaaggggt 60

tattcgacct tgcagtaaat tacacaatgg tacaggtaca ctacatggga tacaccaaca 120

acgggtggta aataaaaact tctagcagaa acaccacaaa ccagatctaa cttattgctg 180

gcaacaaatc aaattgtcta ctgataagtc tgatctatat taagggtttg taatcacaga 240

tatgtagtca cacttgagca aaacctgcaa gactagttct agatcgcga 289

<210> 5357
<211> 142
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e10b1

<400> 5357

tttagcttca tctatctcca ctatggatgg agggatgaat atgtaagaat gaatgcgtta 60

cctaattaaa aaaaaaaaaa aaaacaacaa aaaaaaaaaa acatagccct acagagccat 120

tgtttctcta tggaagaatc cg 142

<210> 5358
<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e11b1

<400> 5358

tgatgaggac gacgacgaag tcgacgagga gggggagcct taggaggagc taggagactg 60

aatatctggt gcagccgctt ggccgtgctg aagacgaaga gcattccagt gactttgagc 120

cagaagaaaa tggtgatggt gctgaggacg aggagactga ggatgatgat gctgaggatg 180

gtgaggattc tgtcaaggcg caatcctctt cgaagaggaa gaggtctggc gcggaggatg 240

aagatgatga tgacggtgat gatgatggtg atgatgatga aaagcctcca tcaaagcgat 300

agtcactttg ttcttgctga tctggcatct tttctgcttg ggccaagaag gaaaataatc 360

ctcacggaga gggctgctgg taaatgctgt agctttagga catctgtggt aggtgtagca 420

actcgaactt gagtctacgc atgttagttg ttagtgcata ctgctgatg 469

<210> 5359
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e12b1

<400> 5359

ttcattcgtc cgtccctgcc tccagcaaac tcgggcgtct caccaccgga gctgccaacc 60

ccacccgaag cggcagccat ggcccccaag gcagacaaga agcccgtcgc cgagaacatg 120

gtcgagaagg cggcggagaa gacccccgcg ggcaagaagc ccaaggccga gaagcggctg 180

ccggcgggca agacggcgtc caaggaggcc ggcggcgagg ggaagacccg gggcaggaag 240

aagggcagca aggccaagaa gggcgtggag acgtacaaga tctacatctt caaggtgctg 300

aagcaggtcc accccgacat cggcatctcc tccaaggcca tgtccatcat gaactccttc 360

atcaacgaca tcttcgagaa gctcgccggc gagtccgcca agctcgcgag gtacaacaag 420

aagcccacca tcacctcccg ggagatccag 450

<210> 5360
<211> 164
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f02b1

<400> 5360

cccacactac cgaagcaagc ggatatgaaa tacagccaga gtgcttttta taaactgaaa 60

aaggggggtta acaaaccaca caaaacaaac aaacacacaa aaagaaaaaa aaacacccaa 120

acaaaaacaa ggcctcaacg aaaaccaatc cctaaataaa aacg 164

<210> 5361
<211> 245
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074f03b1

<400> 5361

ggactccacc gcgtgccgta ctttttttatt ccccccacca ctggttgggg gttgnnnggg 60

ctgtccttaa angaaaagcg tgggttccac tactcgctan atacgttatg agacggacct 120

gtttaagggg ccgttccatt tctgaagcta acaaacttta agtcgttgat ttgcctgcga 180

tttgaagacg tcgtagctgc atctggtgtg ggtaatttca gggcatttgc ggctggtttt 240

attgc 245

<210> 5362
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f04b1

<400> 5362

caattcttat cagaaatctc aagcttagca cagcagcggg gcttcttaac agaccttggg 60

gatgatcaaa cctgatggcg tccagagggg cctcatcggt gaggtcatca tccgcttcga 120

gaagaagggc ttctacctca aaggtctgaa gctccataac gtggagaagt cgatcttcga 180

gcaggactac accgatctgt cctccaagcc cttcttcgct gggctcgtgg agtacatctt 240

ctccggccct gtcgtcgcta ttgtctggga gggcaagagc gtcgtctcca ctggacgcac 300

gataattggc gccaccaacc ccctggcctt tgagcccggc accatccagg gtgacttttc 360

cgtctacatc tgcaggaacg tcatccatgg aagcgactca gttgagagtg cg 412

<210> 5363
<211> 240
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f05b1

<400> 5363

gcgttcttgt ccagtgcttc ccccacctca agcaggggg tctttccaat cagatgggga 60

gagagataaa agagagagag aagctgtcat aatccaccta gtattatcat gttccgcaat 120

gactgattgt tgacctaagc ttgggtctga actctggtgt gctgctgtcc cagctgcttt 180

ggttgtgtgc ccatctacta tgtaatcgtc ctctatcagc ctgttgtgct acaatatctt 240

<210> 5364
<211> 514
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074f06b1

<400> 5364

gggccagcac tcaccctccc atccctgggc tcctgtcgca accccaccgg cgccgccatg 60

gtgaagtact cgagggatcc gtccaacccg accaagtcgg ccaaggcctg tggcaaggat 120

ctcagggtcc acttcaagaa cacacgcgag acagcgtttg ctcttcgcag gatgcctttg 180

ggcaaggcta agaggtacct tgaggatgtt ctcgcccaca agcaagcgat tcccttccgg 240

agatactgca gaggtgtggg tcgtactgcg caagtaaaga accgccagcc aaatgggcag 300

ggtcgctggc ctgcaaagtc agcccagttc gtgttggatt tgctgaagaa tgctgagagt 360

aacgctgagg ttaaaggctt ggacgtcgac aacctctaca tttcacacat ncaggtgaac 420

caagcccaaa agcagaggcg ccgtacatac cgtgctcatg gacgcatcaa tccttacatg 480

tccaacccct gccacattga gctgatcttg tcag 514

<210> 5365
<211> 74
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f09b1

<400> 5365

acataattaa gaaacctgtt gtattcagag gaggtggggg tacataaatt ataactacct 60

tgtcgctttg caat 74

<210> 5366
<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f10b1

<400> 5366

cggtcggtca agaacaattc tctcctaggg cgccttgttg acctcctttg gtgggggtga 60

atcctatctt ggattggtca tacagggatg tttggtcttt cctcttaacc tgtcaggtca 120

aatactgcag cctttatgat gaggggtata catccattgg gagcatatat gatactgttc 180

caaatgcact tcttagtgat tcatctactg ggaacagctt tagaccggca tacatgctat 240

cagatggaag acttgaaata gctgggagag cgaataacac tagcaacaaa acggaaacta 300

attctgttgc aagcaatggc atgaacaatg ctgagggaga gcaaatgatc tcacgttcgg 360

cttcagttat tgtagttggt gatgaaatat tgtttggcac agctgaggat aaatttggcg 420

cagccttgtg caagaagctt catgaaattg gcgtgcgagt ttctcatgt 469

<210> 5367
<211> 390
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074g01b1

<400> 5367

gacacctgcg gggccggccg aattccggtc acccacctcc gggctcatag ggcccgacct 60

ccgagccggc gatcgggggg gcctggttta aaccctcggg agggttccac caccggctac 120

tcgatggcct cgtcgttgga gaacacggga agctcttcct cggaggagtt ccagatcgac 180

gacagcttct ggtcggagac actggcgatg tcggcggaca gctccggttc cgggatggaa 240

tccagcgaca ccttcggcgt agatagtgga gcaccgtctt cgagcaacga tgagatggac 300

ttctgggtca cactgttcat gcaagctagt gacatacaga gtttgtcaca gatttaactt 360

ttaatgagaa gattgggcta ttttcgtnct 390

<210> 5368
<211> 133
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g02b1

<400> 5368

cggttctctt gtgcggacgc atgggcagac tcatgggcgg gcgcgtttta aaaaaaaaaa 60

gggtttcaaa caacaaaaaa aaaaaaaaaa acccaaaact aacaaaacaa aacaacacca 120

cccccaaaaa cgg 133

<210> 5369
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g03b1

<400> 5369

cccatgctat cgaaaatgtg gaagcaaaca tcatccgagg ggatcctttt aggatgagat 60

gttggtgtac tacaaccgcg ccagatatag tacactctca tgacttatat taccagctgg 120

attaaataag tggcgtgttg tacccaccac catcaagtca ttccatgcta tataatgtca 180

agatcaatca agattagggt atgatgccca tgtaaatctt gtggttgtcc tgacttactt 240

ttctagcttc tatggaggat aagtatgtgt gtgctggttg tactatgatt gtgtaatgat 300

atatattaaa atttctactt tgtacctttc aaaaataaat attgaccgac aaagatttttt 360

cgggtttgcc ccgccgtaaa aaaatatgtt g 391

<210> 5370
<211> 410
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074g04b1

<400> 5370

ctgtttttttg tgtgctctcc ggctatgatc agctcggggg ccttttttta ggcaagaagt 60

agggctcaag cggtgcctag acgggaagaa atgatgacga acaagagaag tctgttccca 120

gtcctgccct tcgaggatct ggcgaacttt tatcttttta acgttggaag gcaataattt 180

ctgtagaggg tggattttcc caacattcgt tcttggtgga ggcatcgaac tccagaggtt 240

gtcgtaggtt ggcggcagcg ttctcaaaac atttactatc ataggggttg agtttgagtc 300

cgagtatgtg ccctgaatcg ttactgggca attttcctta aatacattgt cctcgaatcc 360

gactgagatt attatggtcc aagtttnaaa aanaaaaaaa aaatagaaaa 410

<210> 5371
<211> 489
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074g05b1

<400> 5371

gtgactacag gggtgagaag gcgatgcanc tgctggagag ttttctgaag gtgaaggagt 60

acgagctgct caggaggaac ttcagcgaca ccggatgctt tggcttcggt atccaggagc 120

acatcgatct cggcatgaag tacgatccat ctaccggcat ctacggtatg gacttctttg 180

tggtgctcga gcgtgctggg taccgcgtct cccgccgccg caggtgcaag gcccgcgtcg 240

gtatccacca gagggtcacc aaggaggacg ccatgaagtg gttccaggtc aagtacgagg 300

gtgtcatcct caacaagtcc catgcgagct aagaaggacg tagctctctt tagaccttga 360

gttaatgaag ttcacctggt tgctggatat gtatgttacc tagaaaccga aatgctttgt 420

cagttttgcc tgtactcaag ctggatgatt tctgtttgat ctgcactttc gtctaagagg 480

ctcactact 489

<210> 5372
<211> 166
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g06b1

<400> 5372

ccctgcgctg aatgactttg ctttgttgct gtgcgctcat gaactttgtt tcagtagacc 60

ctgcttgagt agttgggaac atgaatgtaa aacttttgta ttcaccttct agacagtgct 120

ttgtgacggt tgactgtaca attgtatata gacctgtctt cgtatc 166

<210> 5373
<211> 400
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074g07b1

<400> 5373

aagctggtac gcctagggtc cggtccgaat tcccggctga ccaatgcgcc atcatgcgtt 60

cggataaccc aaaggttgat gagctgggcg aaatggaaac aaccaagggg tccccactct 120

cgcctgtgcg ggcggacgac aagcggcgcg cgccggcggc gtcagtggtg ctcaaggtgc 180

aggacagctc cncggccgag gcgtacgagc agtacctgcg gctgccggag ctgtccangc 240

tgtggaaggc cgcgtgctgc ccgggctggc ccgacgaggg cctggtcaag cccgcgctgc 300

aggcgctgga gatcaccttc cgattcgtct ccgtcgcgct ctccgaccca cggggctacg 360

ccagccaacc cgagctcgcg cggcggctcg agtcgctcgc 400

<210> 5374
<211> 581
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074g09b1

<400> 5374

tccattcgtc cgcttgctct gaatcgcgag agagaggggg ggatagagag agagacaggt 60

gttaggtgca gctagctagg agcaagcaag cagatccagg aggagcggag atggccgact 120

gggggccggt ggtggtcgcg acggtgctgt tcgtgctgct gacgccgggg ctgctcttcc 180

agctgccggc gcagggccgg atcgtggcct tcggcagcat gcacaccggc ggcctcgcca 240

tcctcgtcca cgccgtcatc tacttcgccc tcatcaccat cttcctcatc gccatcgggg 300

tccacatcta cgccggctag acccccccca ctcttcttcg ccgcacatcg cttctcggct 360

ctgccgcgcg ttattaagct ttgttgcctg ccgagcttgt ctgtctctta ctactattat 420

tngtgatgta ctgtgtgtgt agtagcttct gttgtcttct ttggttgatc ggagaaacaa 480

tcggaagcta gtagtatatg gtttggtggt cggctggggt ttcgtttgag atggctcttg 540

tctctgggat gaaattttat ccagaatggg ccggtgtgtg c 581

<210> 5375
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g10b1

<400> 5375

ttcatgcgtc cgcccacgcg tccgggcacc ctggccggaa tacttaacgt gtcatggttg 60

actctaaata aggggagtgc tgacattggc gcttccacat gggatttatg acagtgcggt 120

gagctgtgta actgtgatta ttacaattta cccttctttt gatgattatt gactattgct 180

ggatggtcag cggttggcat cttatgtaca atttatacag cggttatgtg tcctttcccc 240

ttgtttcaaa agggacacca aagaggacgc catgaagtgg atccaggtca agtacgaggg 300

tgtcatcctc aacaagtacc atgcgagcta agaaggacgt agc 343

<210> 5376
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g11b1

<400> 5376

tcttctcgtc cgcccacgcg tccgatcgtc ggtgaggggt ggttaaacag gcataatага 60

aggatttcct cccaaggaga gagatgatga tgttgtatca tgcttccaac tttttgattc 120

cgatttgccg tttctcggtc ttggcgccac ctgagccgag acattagtta attagcagac 180

gctaatgtct tccccttttgt tttgacagtg acaccaatgt attccctaat tatgctggtg 240

ggcaccatgt tttagcctga catatgtgtg tacatgatat acgtagcaac aaagtggcaa 300

aagctcagtc tgtttaagaa caatgcaagc taaaaaagaa cgtaactata tttaaacctt 360

gagttaatga agatcacctg gttgctggat atg 393

<210> 5377
<211> 108
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g12b1

<400> 5377

atcgcacact ccctatactt tcgggattag tgggggacct aaaataaatg tcattgagtg 60

ttaacaaacc aaaaaaaaaa aaaaaaaaca caaaaaaaaa aaaacaac 108

<210> 5378
<211> 98
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h03b1

<400> 5378

cggacgcttg ggcggacgcc cggggattga cacgcgggtg gcttccaaaa aaaaaagggg 60

gggttaaaaa ccacaaaaac aaccaaaaaa caaaccaa 98

<210> 5379
<211> 544
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074h04b1

<400> 5379

gaagttttct cctcgaatct tcactttcca tctcgggggg gcgttatctg aaacaaagcg 60

gggatcttgc cagccagcca gcggccatgt cgtcctcgtc ggacaacccc aacacggtca 120

ccgaccgcgg cctcttcagc aagagcagca aggacgacgg cgccgacaag aagaagaagc 180

aggaggagaa gaaagaggat ggggaggagg gcggcagcgg cttcatcgac aaggtcaagg 240

acttcatcca cgacatcggg gagaagatcg aggaggcggt ggggttcggc aagccccagcg 300

ccgacgtggc ccggatccac gtgccccaca ttggcctcca ccgcgccgac ctcgtcgtcg 360

acgtgctcat caagaacccc aacccggtgc ccatcccgct cgacgacatc gactacctca 420

tcgacagcga ccgccggaag ctcgtcgcgg ngctcatccc ggacgcccgc accatccgcg 480

cgcacggnga ggagacggtc aaggtgccca tcacgctcga cttcgacgac atccggagca 540

ccta 544

<210> 5380
<211> 523
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074h05b1

<400> 5380

acatgccgac gaggtcgttg aggaaaggag ttctgttgat gaaataattg tgggtgaaag 60

gcacaaagaa cacaagtgcg gtttccatta tactcagagg agcaaatgac ttcatgctag 120

acgagattga acggtctttg cacgatgcac tctgcattgt gaagagaact ttggaatcca 180

atacggtagt tgctggtggt ggtgctgtag aaactgcatt atctgtgtac ctggagaatc 240

ttgctacaac tcttggatcc agggaacaac tggcaattgc tgaatttgca gaatctttgt 300

tgatcatacc aaaggtcctt gctgttaatg ccgcanaaga tgcaactgac cttgttgcaa 360

agcttaagtc atgtcatcat aaagctcaaa caaatgctga taagcagcac ttatcaagca 420

tgggtcttga tctgacaaaa ggtgtaatcc gcaacaacct gaaacatgcg tcatcgagcc 480

agcaatgagc aaagtgaaga tcattcagtt tgccacagaa gca 523

<210> 5381
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h06b1

<400> 5381

gccgtctctg aacccatccc cttccccccc tctctgggtg tccatcatat ccccgacgga 60

gccaaccaac caacaatgga agttgctgcg cccaagcaac tcctccccat ggcgccgcgg 120

gaccccaact ccccgtgctc ctgcacctac tactcctcgc cgtcttgcgc cgcgtggccc 180

tccagccacc ggcccagccc gctgccgccg tccccgaggc ccgtgccccg caccatcgac 240

accacccccct tccccaccac cttcgtgcag gccgacaccg cctccttcaa gcaggtcgtc 300

cagatgctca ccggcgccga catgcctccg ccgtcctcgc agccgcaggc ccagagccag 360

aggcccccc 369

<210> 5382
<211> 412
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074h07b1

<400> 5382

ttatttagta aacagagagc tcgctctccn tgaatggtgt cttttaagag gaggagggag 60

aataaaaatg gagcaccctg ctgctacctg gtcacgctct cagcagtgtg aattcccaga 120

agcatgcttg ccgtgccttc tatccggtgc accggaggct ggcatgtgag cagggatgct 180

tcaatgatgc agaagaaaaa aggcaagtct tatcggcaag ggaagggtac gcctttcttc 240

caggtctccc tctctccatc taaatctgtg tttggaggag ggggctacng ttagtttacc 300

caccggttta ctgcgtcctt gtgagttgtg atcattatca tgcactcntc agttgcttgt 360

catgtatggt gttcttgaat tttcagctac antaatgtcc ggtgtgtgag tg 412

<210> 5383
<211> 329
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074h08b1

<400> 5383

gtccttaact ccagatcagc tacttgatca ttggaggggt gcttagtgat cactccgcag 60

ctaatggcag gaaagacatc catcgcgctg tttctcgccg tgaacctggt cgtgttctcc 120

gtggccagcg cgtgcggngg aaactgcccg accccgtcca cgcccacccc atcgacgccc 180

accccgaccc cagcctcgct ccgcaggtgc ccacgcgacg cgctgaaggt gggcgcatgt 240

gtcaacgcgc tgaacctggt caaggcgcag gtgggcaggc cgaccgcgtt gccgtgctgc 300

ccgctgctgg atgggctcgt cgacctgga 329

<210> 5384
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h10b1

<400> 5384

cgaggagaaa ggtggaatca agaccggggg gtttttctaa acaagtgtcc ggggagtgta 60

tgccgtcagc gacgtggcca ccttcccgat gaagatctac aacgacgaga ggcgagtgga 120

gcacgtcgac cattccagga agtccgcgga gcaggctgtg aaggcaatca aggggaaaga 180

ggcggggtct gccgtggagg agtacgacta cctggcctac ttctactcgc ggtcgatcga 240

cctgtcgtgg caggtctaca gggacaacgt cggcgacgcc atcctgttcg gcgacaccga 300

ccccagctcg gacaagccca agttctggtc gtactgggtc aaggactgca agttgcgt 358

<210> 5385
<211> 482
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h11b1

<400> 5385

ttttctgcgc gacgaggcgc agcgggcgca cgtgggccgg atgaaggagc ggtgcgagcg 60

caccaaggcg gcctgggcgc tcccgctccg cccctacggc ttctggacct tcgaccgctt 120

caactcccag ctctcctggg acccccagat cagccaggcc gccggccgcc gcgaccccta 180

cgacgacctc ctcgcccgcc acgccggccc cgccccgccc tcctcctcct gagaaccgaa 240

tccggcatca accgcgagga agtgtggttg ccccggatct acgcgggcag caataaggaa 300

ctcatttccc tcaaaatgac tgtgattgca ttccccttctg gttcattttt atccttgaac 360

tgccccagtt ggttcatctg ctgagtggtt actttgacaa acttcctgtt cggcaagata 420

cctgaaatgc tttgtatctg ttgattttca gtctttgtac catgaaagct atcaataatc 480

tc 482

<210> 5386
<211> 550
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h12b1

<400> 5386

tttatgcgtc cgcccacgcg tccggtctac ttcggcgcgt ggtgtgcgct gaacgtgatc 60

ttcaacatat acaataagaa ggtgctgaat gcgttcccgt acccgtggct cacgtcgacc 120

ttgtccctgg cagccggctc cgccatcatg ctcgtgtcct gggccaccag gatcgccgag 180

gcgccccaga cggacctcga tttctggaag gctctctctc cggtggcgat tgcgcacacg 240

atcgggcacg tggcggcgac ggtgagcatg gcgaaggtgg ccgtgtcgtt cacgcacatc 300

atcaagagcg cggagccggc gttcagcgtt ttcgtctcaa ggttcttcct cggcgagcac 360

ttcccgttgc cggtctactt ctccctcctc ccgatcatag gtggatgcgc tctcgcggcc 420

gtcaccgagc tcaatttcaa catgattgga ttcatggggg cgatgatctc caacctggcg 480

ttcgtgttcc ggaacatatt ctccaagagg ggatgaaggg caagtcgtga gcgggatgac 540

tactatgcct 550

<210> 5387
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075a02b1

<400> 5387

cttacgcgtc cggggtgcta cagtgggtga tgcggctaag aagattttca tgttgggcct 60

gttcacaaga gggctacccc ttcgtatcgt catgattggt actcttaccg gtgctcagtg 120

gggaatctat gacgcgttca aggtcatggt tggactcccg accaccggcg gtgctccacc 180

agttgctccg gtggaggaag cagcgaaagc cagcgcttga ttgatttttc ctactacgac 240

gatgacgatg tattccggga tgatgtggta ttggtggatg gggactgtat caattacttg 300

agtttagcaa ccgaaatcat ttgttattgt agcagatggt tattgtgtca tcattttgat 360

gagaggaact cattaagcag gcg 383

<210> 5388
<211> 352
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075a03b1

<400> 5388

acggtttgcg tttcctgcga cgttcgagct cccgcggcgc gggcacactt agtctccggc 60

catggggttc cccctggtgt gctactgcgt tgccatcccc aagccggtca tcgacttctg 120

caagctcgtc gccgccgtca gggacgcctt cctcctgctg ctctccctcg tcggcctctg 180

ccgctccccg cgccgctccg tggacgacgc cccgctgccc gaggaggtca aggagcgcct 240

cccggccgtc gagttctcct tgctggcgcg tacggcaaag catgggtgcc acgactggga 300

ctacgacgtc gccgccgcgg cggtcacgtg catcgtgtgc ctggagaggc tg 352

<210> 5389
<211> 504
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075a04b1

<400> 5389

cttacccata cagaaatctc aagcttagca caggaccagg gcgtttgagc agaccttggt 60

gattatcaag cctgatggcg tccagagggg cctgatcggt gaggtcatca tccgcttcga 120

gaagaagggc ttctacctca aaggtgcgaa gctccagaac gtggagacgt agttcgccga 180

gcagcactac gccgatctgt cctccaagcc cttcttagct gggctcgtgg agtacatcgt 240

ctccggccct gtcgtcgcta tggtctggga gggcaagagc gtcgtctcca ctggacgcaa 300

gataattggc gccaccaacc ccctggcctc tgagcccggc accatccgtg gtgactttgc 360

cgcctacatc ggcaggaacg tcatccatgg aagcgactta nttgagagtg cgaggaagga 420

gatcgccctg tggttccctg agggcattgc agagtggagg agcagccagc acacttgatc 480

tatgaggcct aagatgtgtc atga 504

<210> 5390
<211> 280
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075a06b1

<400> 5390

gatccccacg cacagggcga acccaatacc cggtttgacc cacacctaca atctgccgtc 60

tccactaaag atactgcccg taatgatatg atactatagt caacacctta tgcttctaaa 120

catctgaccc tgcataaatt gttaggcaca cacaggcaat accactgcac atggatcacc 180

ttgccaatat ttcctacaga atcgaagctg agtgtctcga acattccttc ttacgttagc 240

atgtatagca acttatcccc tagcaactat tttgcaaaac 280

<210> 5391
<211> 225

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075a09b1

<400> 5391

tttcggttac gcgtgcggta gttgtagctg gggggggggt tacctttagt tacccggcgg 60

gattggcatc cttcatacag tactgtcagg cagatcacca agccaagaaa cggaccaaca 120

gcttgctaat cggcgccgat actggtcatg ggcgccgtga gggtcatcaa ggcgcccggc 180

ggacagaatc ccaggctggc aatccacgct ccggggaggg gggcc 225

<210> 5392
<211> 261
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075a10b1

<400> 5392

cttacgcgtg gggccaagat ccaggagggg gagggcatct ttccggacca ggagcgcctg 60

atctttgcca tacagcactt cgaggatggc cgcaccctcg cggaatacaa catccagaag 120

gagatcaccc tccactcggt gctcaggctc cgtgggggca tgcaaatatc tgtgaagacc 180

ctcaccgaga atagcattac actctaggtg gaggcatctc acaccatcca caacgctaat 240

gcgaagatcc aatacaagga g 261

<210> 5393
<211> 508
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075b05b1

<400> 5393

attcacattg aattgttcac aaggtcctgg tttaaggggg gaagaaatga aaatttgttc 60

ttctaagcaa atgctagcaa aagatgggca acctcagact agcctgaagc gcaagtgcgt 120

cacttcctcc ttaccaaatt ataatgagca gaatgcaaat gatgaggaaa agagtaatca 180

agttctagag cctctcaaca agaagagggt accagagaaa ggggaagtgg agcaagatga 240

cagtaaggtc aaactcgcca acggtgaaag caatcggtaa atactcgttt ttcttgtgat 300

tctcggtttt atactagtct tgtattctga tggtgttcta tttggttcac cttgccttga 360

aggcctgccc agcagtcgat gaacgacatg ctcctcaaga tccgtgccgt gaaggatagt 420

ttgagggaca aacctggcaa gtttgaggag tcgatgataa acgccgcgat cctctacgtn 480

catgccgtga aggatagctt cagggaca 508

<210> 5394
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b07b1

<400> 5394

tttcgtttac gcgtccggct ttatccaaac aagcaatcag tatcactatt ggcggctgta 60

tctccccaat ttccacctat ggtggcacac actatgacat cgatatttta gtttggaagg 120

accgagcggg gggcaattgg tggctgcaag tgggaggtga ttatgtgggg tattggccat 180

catccatctt atcctacttg gaagatagtg cttctaccat catgtggggc ggtgaggtat 240

tttcacccga tgccggacaa acttccacac atatgggtag tggacacttc cccaatgaag 300

ggttcggcaa ggcgagtcac atcaagaaca ttcaagtggt agattcgacc aactgtctca 360

atcccccaag taatgcgggc ttgataaccg agcagaacaa ctattataat gtgcaaagtg 420

acacctatgg cgactggagc acttacatct a 451

<210> 5395
<211> 247
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b08b1

<400> 5395

ttcgatctgc actactcacg gtaagagcca catccaccac aagtgagtga ccatcggagc 60

aaggaaagac caggagagat ggcaatgagg ccgcttgtcg tcctggccct ggccgtggcg 120

ctcgccggcg tggcactggg agggggcgcg actgaagggg ccggctagtg cggtaggtcc 180

tccaccgacc ggatggccct gcgcatggcc ccgtgcatat cggctgcgga cgagccggac 240

tcggctc 247

<210> 5396
<211> 247
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b09b1

<400> 5396

tttcggttgc agctgcagct gtggaggcta gagaggggga taacacactc tggaggctgc 60

gttttcacta gcccgcgtgt agggatcgac aggaagatgg gacacatcct gctcctgtgc 120

gcatttctac tcggcctgat caatgaggac agcctcacgg aggtaaccga atggatgggc 180

cgatgcacat cacaccgggg atgaaacccc agcccgcgcg gcctcagaac tggcacctgg 240

gtggcgt 247

<210> 5397
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b10b1

<400> 5397

tttcgattat ccccgatacc aaagcccatc ttcttgtggt tgaaatcttt ttgggttcac 60

agatttggag gatgtcttgc aactgtggat ccggttgcag ctgcggctca gactgcaagt 120

gcgggaagat gtaccctgat ctgacagagc agggcagcgc cgccgcccag gtcgccgccg 180

tggtcgtgct cggcgtggct cctgagaaca aggcggggca gttcgaggtg gccgacgggc 240

agtccggcga gggctgcagc tgcagcgaca actgcaagtg caacccctgc aactgttaag 300

ct 302

<210> 5398
<211> 70
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b11b1

<400> 5398

gttagcagtc catcaaacag gcgatgagga atggacttct acatgcattc gacgtgaaca 60

acctacacgt 70

<210> 5399
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b12b1

<400> 5399

tttctcttga aaggggatc cctgctggtc ttggtgtttt gggaacaaaa agggttccat 60

accccagtag atcgttcgaa ttagcccact gttctcgttg caggattgat tggcttcaga 120

gagatggaat tcttatgctt gaactggaca gattactcag gcctggaggt tattttgctt 180

attcatctcc tgaggcatac gcacaggatg aggaggaccg tagaatctgg aaagaaatga 240

gttcccttgc agaaaggatg tgctggaaaa ttgcagagaa aaaaaaccag acagttattt 300

tgggtcaagc ctctgaacaa tgattgctac aggagccggc 340

<210> 5400
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c01b1

<400> 5400

ctttagctta cgaaggcggc gccgcggcga cctcatctcc ggccaaggga aatgactacc 60

gttccggggt ctctggtgtg ggagctcgtg aagaaaaaca actgcttctt gatcaagcag 120

ttcggcaaca gcaacgccaa ggtgcagttc agcaaggagc caaacaacct ctacaatgtc 180

cactcctaca agttctctgg cttggcgaac agcaagaccg tggcggtcca gccatcagcg 240

ggagaggaca aggctgtcgt cctgtccacg accaagacca agaagcagaa caccccctgcc 300

aagctccagc acaagactct gatgcgcaag gagttccgca agatggccaa gtccgtcaag 360

aaccaggtct gcgacaacta ctacaggcct gatctgacca agccggccct tgcaagctg 420

agtg 424

<210> 5401

<211> 557
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075c02b1

<400> 5401

acggtcagct tctaacgagt gccccgcgag cacgacctgc tgctgcatct acgagtacgg 60

caaggagtgc ttcgcctggg gctgttgccc actcgagggt gctacctgct gcgatgatca 120

ctacagctgc tgccctcata actatcccat ctgcaacacc cagcagggaa cctgccttgc 180

ggccaaggac agtccactgt cagtgaaggc tcagaggcgt accctggcca agcctatcgg 240

tgctttctct gtcattgcaa ctgacggcaa gaaaagtagc gcgtaaacat ttgcatcacc 300

acaatcctac agccaacggc catggtggtt aacttctgca aatgatcacc tggtgaccca 360

cgatagaagg cgcagcatgg caatagctgt gctctcaagt atcttcttta tagtagatgc 420

tnctgtacat aatccctaaa tcgggttcgg gtggtcacag accgncacan ttgcttttgc 480

atatgtatat gtaaattcag cacattccaa gcagtttggg gctgctattt gtatatggaa 540

ttcatcaaga acaagat 557

<210> 5402
<211> 471
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075c03b1

<400> 5402

cttagcttca gatcagctac ttgatctgtg cttactgagc actcggcagc aatggctggc 60

aaggcatcga tcgcgctgtt cctcgccgtg aacctggtcg tcttctccgt ggccagcgcg 120

tgcgggggaa actgcccgac cccgtcgacg cccaccccat cgacgcccac cccgaccccg 180

ggctcgctcg gcaggtgccc acgcgacgcg ctgaaggtgg gcgcgtgcgt caacgcgctg 240

aacctggtca aggtccaggt gggcaggccg accgcgttgc cgtgctgccc gctggtggat 300

gggctcgtcg acgtcgaggc ggccctgtgc ctctgcacgg tgatcaatgc cagcgtcctc 360

agcatcgtca agctcaacct ccccatcaac ctcagcctca tcctcaacca ctgcggcaag 420

aaagcngccc accggtttat gtgctaagcg atctagcaag gtgtgacatg c 471

<210> 5403
<211> 507
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075c05b1

<400> 5403

acgcttacgc tctcgcccac gcgtccgcat cttcttactg ggggcaactt gctgctcctc 60

ccggatccga agctcagtcc cgtggccacg cagattatct ccggaaaatc atagtgcagg 120

gtcgatcctc caagtcaacc aaagttgtag atatcatgac cgaagagaac aagctgatca 180

cggtgaaacc tgaaaccaga gtcctgaaag caatgcagct gatgacagac aagcgtatca 240

ggcacatccc ggagatcagc ggcaccgaga tgatggggat ggtctccatc ggcgacgtgg 300

tgcgcgcggt ggtcagcgag cacaaggagg agctgaaccg gctcaacgcc tacatccagg 360

gtgggtacta ggaccccgcc gttttgcagg gcgtcccttt gagtgaactc tacaataacg 420

accagngtga tgatgacgaa ataggccgtg tttcttcgcg gacaatggcc gttgaactng 480

aatntgcgtg tgtgatgttt tcctgct 507

<210> 5404
<211> 186
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c06b1

<400> 5404

acgcttacgc ttccgatgtg gtgtgctgat cttccggaga aggggaacca tgcactcttt 60

gtggatttct caacttacag catggttact ctatccaaaa aacacacaaa atctaaaaag 120

cataaaagaa aaaaaaaaaa aaaaaaaaaa acaaaaaaac aaaaaaaaaa aaaaaaaaac 180

aaaagc 186

<210> 5405
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c07b1

<400> 5405

tttaattgct ctgcaaaatc gttggcataa aggcagaggg agaagcacgg gcacaaagga 60

aggcccaggt gcgccgagtt cagaatcttg ttgagacctt tgacaagctg aaggcaagga 120

atgccaaccc ttctcagtga tagcgccaaa tctgtttcgg tgtctaccga gtgggagacg 180

tttgaaaact gtgtgggcag cttgaatgct ccaccgggcc gattttcttc tgacgcaaaa 240

tgacactgac tgggagcagt tcgactagca tgagaatgag cattctcgat gtattattat 300

gtaactcgcg accaatgcta ctgagtacat gtatgaagaa tggtgcctct tgccactaca 360

ctgcctgtga gattgtcgcc agatgatgc 389

<210> 5406
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c08b1

<400> 5406

gtctgtgcga agaggactga ctagaagcgg tgcctctgat ggtctggtct tttgtctacg 60

gcggtgcata tctgagtatc tgacgaccgc ccgccgccgg cgatgggctg ctggtgggag 120

cgcctcgtgc tgccggtgcg aagggcgtgg ctcggcgtcg cctcccgctt cggtgtgcgc 180

cagtccggta aggccgcccg ccgctagctc accgttcagc cacatgctgc agaggcttcc 240

ctcgtcggtc cacctagtcc tgggctgact ccggcgtcgc tggttgcttt tttggttgca 300

gggctgtgga ggctccggca ggaggtgagc acgtgcgagt acgaggacgt gcgcgtgatg 360

tgggagatgc tgagccgacc gcgtcggcgc cgccggcgcc ggcgaccagg cgccacagca 420

ggtt 424

<210> 5407
<211> 268
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c10b1

<400> 5407

gtaaatattg ctcattgcag aaaaaaaaca agggagaact tagaaagaaa caaggggaaa 60

caaaacacaa accaaaaaac acacaaacaa caggcggcag cccagcccgc cgggcccatc 120

ctcccaggca gcccgagctg cagaccccag gcccccagac cgcccccccga ccaccgcggg 180

gcccgcaacc agacccctaa atgcaatgca cccgcccaca gacaacccca tcacgcacgt 240

cccagccctc cccggcccca ccttgatg 268

<210> 5408
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075d01b1

<400> 5408

ttcacgcttt cgcccacgcg tccgactagt tctagatcgc tagcagcgcc agccgccgcc 60

ggcgggtgac cgtgtcattc gagtatagct atagcacacg aacttggtgc gatgactgat 120

gaggtgtaca tatgattcct gtaatttgtt ttttttttcg gtggcgagtt ttctttcctc 180

tgcccctgct cgcgtatttt aagagcaggg atgggcatga cataatgcaa aattgtacat 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaat aaataaaa 298

<210> 5409
<211> 241
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075d03b1

<400> 5409

acgctttcct ttcgacccct gcttgtcttt ggattagatc tgtttcactg ataccaattt 60

tgtgcttgcc taagcgaata tcaacaagta ttttatcttt ctagtcttgt cttgaacaga 120

aatcatggga gcaatggaac tgcattttct gtttaaaaaa aaaaaaacag aataaaaaag 180

ggaaggatga aaaaaaacaa aaacagaagg ataagagcgc tgaacaacaa caatataaaa 240

a 241

<210> 5410
<211> 462

<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075d05b1

<400> 5410

acggtttgca ttctgtttgc tgtggattgc agccgtgttc cagtcgcttc tgtacgaggt 60

ggcggggcga acgatcaacc cggtgagcgg cgcggtgggg ctgctctggg cgggaagctg 120

gcacctgtgc gaggcggcgg tccagaccgt gctccggggc ggcgccatcc gcccgctgcc 180

ggagctcgcg ggcggcgtcc cggaaggcgg agtcggtgga agcgatctgt tcgcctcctc 240

ttccaggcgg gccgtggtgg ggtgctccac gtattcggcg gcgaagcggg tgacgccgag 300

gaagacatgg gcgccggagg cagcgtccca ccaccaggag ccctcgtgcg acctgnggct 360

tttcctcacc cccggatcgg ccgcggcggc agaggggggag cgactggcga ggcgggcccg 420

cacgccgtcg atgagctccg acggctccgt gaccactagc gc 462

<210> 5411
<211> 421
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075d06b1

<400> 5411

gttaaggttt ctcgcaaacc cttcgatgaa gcaggccgtg ctgttccccc agccagctca 60

agcaggagat gcattccatc agatactgaa cgggctcgct cgcaagcttc cgcatggcga 120

agatgtcttc ttgaagcccg gccaggtccg tctgaactgg accgctggcc cggtgggtga 180

cctgaagccg tggtagcatc tctcgcatcg cggtttggag atgtataaaa acctttttga 240

aaataaacat tttcagacct gatatacttt gcgcctttat accaccatgg ttgcacagtg 300

ctgaccataa gtcaaatgta catcttttttc atcttctttg ctgatagctt gtncaaaaaa 360

aacaaaaaag acaattacca caaattaaaa aaaaaaaaaa aaagacaaac caaaataaat 420

a 421

<210> 5412
<211> 201

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075d07b1

<400> 5412

ttacgtttaa acttgttgtt cctacacata tggtttcctg atttgaacca agcttatttt 60

aaatttcgag ggtatgtgca tgtgtcgtac ggatgtgatt atttggaata atacgatttt 120

aatgaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaataa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaat aaaaaataaa a 201

<210> 5413
<211> 484
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075d08b1

<400> 5413

tggcactccc taagctcctc ctgcttctct tcgtcggcgg tgcactgtca ctcaccttct 60

tctccggttc agaggccggc gaggtgggcg tgtgctacgg gatgatgggc gacaacctgc 120

cgcagccgcc ggcggtggtg cagctgctga agcagcacgg catcacgatg gtgaggctgt 180

acgacgccga cgccggaggg ctgcgcgcgc tggccaacac cggcatcaag gtggagggtg 240

tccctgccca acgacaacat accggacgcg gcgagcagca tgtcgtacgc ggtgccgtgg 300

gtgcagagca acgtgcaggc gtacccgggc acgtggatcg acagcgtggc cgtcggcgaac 360

gaggtgttcc accaggcgcc atggctgacc caccagctcc tcccggccat gaagaacatc 420

caggcggcgc tggccggggc ccgcctgggc gacgcggtga aggtggtgac gccgatcgcg 480

ctgg 484

<210> 5414
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075d09b1

<400> 5414

tttcgtttca gaagagagga caagagaaga ggatccattg aacgagccgg cggctatggc 60

gtggcgggcg agcctatccc ggaacgtgaa ggagatccgc ttcctcttgt gccagtcttc 120

ccctgccagc ggccccgccc gggagttcgt gaagaagaac tacagtgaca tcaagacccg 180

cataccccac cctccccgtc ctcatccgcg agtgctcccg cgtccagcct cagctctggg 240

cgcgctgcca tatgtgcgtg gagaggcacg tgcgcttgga cgggttgaca gaagcccaga 300

tcgacaagaa gctggaggag ctagccaagg caggagctgc gaaaagctaa aaactgtcag 360

gctagccaag ttatctcgcg ttaaagcttc acaaataaca gaacagttct catgaggtga 420

tacgttatct tgatttcagt accatgactg cactc 455

<210> 5415
<211> 392
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075d10b1

<400> 5415

tttcgctcga cccggcgacc aaccccgcga tccggcgagc ccgatatggg gttcctggcg 60

acctccgcca tcttcttcct cgccggcttc atcgcatgcc tcttctcgct cctctgctgc 120

aaccgcggcg cctccaccaa catattccat ttgaccctgg tcattaccgc tacagtttgt 180

tgttggatga tgtgggcaat cgtgtacctc gcccagatga agcctttgat caaccccatc 240

ctgagcggcg agtgagcccc gatctgcccc gaagacaact taagatccac tgttgatgta 300

tcattattcg gttgagaacc tctattcatt ttgttgccat aactgaaata aacnagaaaa 360

aatcccccct tcatagccgg caaaaaacaa tg 392

<210> 5416
<211> 458
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075d11b1

<400> 5416

ctcggtcgtg gctgctgctg gcgtgggtga gcggggtggc tggcaacctt tcgctgctgg 60

ggtcggcggc gaacctgatc gtgtgcgagc aggcgcgccg ggcgccgcgc aacgcctacg 120

agctcacctt ctggaaccac ctcatcttcg gcgtgccctc caccctcatc gtcaccggcg 180

tcggcatccc cctcatcgga aagatgtagc caccctatcc atctaccaac atcgccctcg 240

ccaccgtcga ccgacgatcc aactatatgc aatatacact ttccttatat ataccagcag 300

cctgtacata tgtacgtgca tacacaagcg catatacggg cactntgtac gtacgtacgt 360

ataggtcata gcctccgttt tcgtatgtgt gttaattgct gtgtgcgttg ctgattaatt 420

agtatatgta tgtatgtaat ggtgagacga gacggaga 458

<210> 5417
<211> 70
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e01b1

<400> 5417

agcgcccgcc ggagaacacg gaagaccaat acaccgagcg gagacacaca acgcaggccc 60

agaaaaaccc 70

<210> 5418
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e02b1

<400> 5418

cttacgctct cgaggacgcg agggccgaca cgggggggt tggattggga ctgccttgtg 60

gataacaaga ctgctgccag caacaaagag aactcctgca aaggggagag gcaagcacag 120

tgggctaccg tacagataac actgcatgag cttcaagccc cagagccagt ctcccacaca 180

ctggagaacg acaagagcag ctaccgagag ctctctgaga tcgatgagca ggcacagaga 240

cctagctgtg atggccaggc tgctggaggt aaacacactc aatggccacg tttaatccga 300

ggtggagctc aaggggcccg acatcaacac catgaaacca gagctacacc cagtgaggaa 360

atgggacatt gaaccaacaa acatgacata cgtgtcggag ctagaccgga atggcactcc 420

gcgtgaagat tgttgcggcg aatgaaagaa acaaacatg 459

<210> 5419
<211> 275
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e04b1

<400> 5419

acctacgctt gtcctttaat gcttcacccg ccggatcttc aagtggtcgg gtacactagg 60

cgcagaggcg cttattcctg cgcttaagac agcagacttc atagaatgtg aacctgctgc 120

tcgagaggca ggactatgca tttcgatata gagcgtgcgc taactgctag gtgggaccat 180

ctccggcaaa gcactacact gaagctacta caggtgcttc gacagctctc tatacatact 240

cagcatctta tggttacctc tgacctactg caggt 275

<210> 5420
<211> 179
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e05b1

<400> 5420

acggttatgt tttgaggtcc tgaaatgaag ttggtttgtt catgaatctc caaggactgt 60

tagtgtgacc atccgtttct agtatgtaat cttcagggct atattaacca acaagtctat 120

gcattatcca gtttaaaact tccaaaaaaa aaaaaaaaaa aggacgccaa aaaagcacc 179

<210> 5421
<211> 505
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e07b1

<400> 5421

gtatgatgga ggcaccggcc gctttgggtg cgggacagat ctgttcccaa ttgatcatgg 60

gctgtgcttg ccggagaact tggaggaccc ttatttcgag tggatacact gggcgcaggc 120

gtcaattccg ttctccgagg aagagctcga gtacataagc aaacttgatc cgatgaggga 180

tgctgcaatg ctgcggggag aactgcccat gatacgggag gcttgcctcc gagtccttat 240

cctgtgcaca atcttcctca aggaagctgc tgctttcggg ctttgcttgg cagagatagg 300

ggagatgatg accagggaat tcagaggaat ggaggaggaa cccagcaaac tggaggttgt 360

gtgcatggaa gccaggagga aagtagacga atgggaaccc ttctccccta gtgttgaaga 420

ggacatggat ttccagttct cgatggatgt gttaggaggg tacagtgatg tgattcgatc 480

gccaagattc aattgctcgg gcctg 505

<210> 5422
<211> 532
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e08b1

<400> 5422

tgttgttatc agatcagctc tgaacatcga caagtctgaa gcagatctca ccaatggaac 60

catgacagtt agcaggaaaa gtttagatac ctcctctggc ttcttgtcat gcattggcaa 120

tgttcttggg tataaggacg atggaattga agtacaatgg gctagtggtg tgatatccaa 180

ggcgcagcat tttgaaataa ttggattaga aagacttcta gatagttcac taggatctgt 240

gaatgaggtg catacttctg tcgacgacga ggctgagcag gaaacaattc gccatgagag 300

tactaagaat gccctggaag agtctggtga agactgcact ggttcattgc gcaatgcttt 360

ctacttctcc aaaacagctt ttaattttct gacgaatgtg gcttctagtt tctctggtgc 420

tcatgattct acatcatcta gctcaattac tgcagttcct cagtatcaaa ttgtgaagtc 480

agcagatcta cattcgtctg cagaagaaat ttcgttgtgg agttggtgat gc 532

<210> 5423
<211> 555
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e11b1

<400> 5423

tttcgtttat cgatagcaca gcacagcaca gcagaagcaa ctcgtagcca gaggacatac 60

ctgatggaga acaacaggag caaccagcag gctcctccac caccgccagg gtacccgacg 120

gcggctgcgg agcaggacca ggtcggcggg aagaaggggc gccgggcgag caccaaatcc 180

aggggcgaga agggcttcat cgagggatgc ctcgccgcac tgtgctgctg ctggatctgc 240

gagatgtgct gcgactaacc ggccggccgg cgaggccgct gctggctggc acaagacctc 300

ggtgctatag tacccacgag gaggaggagc gtatgcgtat acagagagag aattgttctt 360

aatttcagtg cccgttgttt taggttctat acagtatata ctcctaagtt gatgcatgca 420

tgatcagtac cagtgtgaga tatcgattca tgtatccgtg ttgggtgcga tattcatgca 480

cctcgtcgtg tgtaattaat cggtgtgtac gagacccacg aatatactta caagtactgt 540

ctactgtgat tgagt 555

<210> 5424
<211> 205
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f01b1

<400> 5424

acggttggtt ttacattgta gcctagctag tgtaaggcaa ttgcaaagga tggcgcgagt 60

tggttgtgca ctccgaacaa aattatcaaa aaaataatcg ccaaaaaaaa aacaactgaa 120

gacaagtacg atgaaaagca ccaagaaaat atactggaaa gaattaactg agacaaacga 180

tggatttaac gtaaaaaaca ataac 205

<210> 5425
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f02b1

<400> 5425

ttacgcttcc ggcccccaat cgagccgagc tcctcgcgat tcccaatccc cgcacgcctc 60

ctcgccctcc tcctccggcc ccgccgccgc cgccgcctcg ccacaggctc acggttattc 120

aagatggaac acaaggaggc gggttgccag cagccggagg gcccaatcct atgcgttaat 180

aactgtggct tctttggcag tgcggcgacc atgaacatgt gctccaagtg ccacaaggag 240

atggtcatga agcaggaaca ggccaagctg gctgcctcct ccttcgatag catcgtcaac 300

ggtggcgacg gtgggaaagc acctgttgtt gcggctgtag ccgcgagcgc agaggtggtg 360

gttgctcaag ttgacgtgaa ggcgctcgtt gtgcaaactg ctgctgatgt tgcaagcacc 420

agcgaagctg ttgccgtgag ccccaagagg aggaggg 457

<210> 5426
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f03b1

<400> 5426

acggcttgct ttccgcgacg tcactcttgc aggagcgcca aagcttgccg caacgcccga 60

gcttattgtt ggcaccgtca cagcagaacc agagcttcca gtccaaggag tcattgtccg 120

agcagcaacg gagctcgcag tccacgatgc tgccgttaca acaccaccag gacttgcggc 180

aacatcagca gcagctgagg ctccagttga gggaggagtt gtcgcatcag gaacagaact 240

cgcagtccgc ggtgcatcgc cgcagcagcg ccggtgcttg aggcggcaac acccagattc 300

tcagcccgcg aacttacatc agcaccagag ttcgcagccc gcactatcac cgtggcagca 360

gcacaagagc tctcagccag cgatgtcgct gtctcagcgg caccagagct tgcagagctc 420

gcagtatgtg ctaccacc 438

<210> 5427
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f06b1

<400> 5427

acgtttcgtt ccagcgatct tcgaggggct ccagggggag ggtgcactca cgcctgcttg 60

ggttattcac gtgctggtga cctaacagtt gtacagcatc aagggcacgg ccgaaatcga 120

gaacctcgga gagctggaca gctggctcga gatccgtcct tgcgctatgt tgctcaaagt 180

cgtaacctgg cactccgaca ggggcttacg caactag 217

<210> 5428
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f07b1

<400> 5428

gtctaacaca gcaaatcata ctagacagtg tatttttcca cataatatat ctggtccgga 60

ctgtaattgg gcgtcttgca actgcagatc aggctgcaag aatgcagatc aaactgcaag 120

agcggacaga tgtaccctga tctgacagag cagggcagcg ccaacgacta ggtcgacaac 180

gaggtcgtcc tcggcatggc gcctgggatc aaggtttgac agaaccaggt gtccgccggg 240

cagttcggcg aggactgcat ctgctgtgac aactgcaagt gcaacccctg cgactgttaa 300

tgcaacatgc actcaaacgg aaaaccgtgt gatggtccag agagtatacg tgaataacga 360

gcgtctgatc tgatggagtc gagcaagtgt gagagggcct gt 402

<210> 5429
<211> 484
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f08b1

<400> 5429

ttttaaccgc accttggccg accacaacat ctggaaggag tccaccattc tccttgtcct 60

ccgcccgtgt agtacaatag gaggtacgat gcccatcttc gtgaagacac tattaggaaa 120

gacccacact cttgaggttg ggagcttgga caccatcgag agtgtcaagg tgaagatcta 180

tgagaaggag ggcactcgcc cgatacagca gcgcctcatc tttgctggca agcagctgga 240

ggacgggcgc acgctggcag actacaacat tcagagggag tctacccttc atttggtgct 300

ctgcctttgt ggttgctgag atgcatggcc attcaacaac cagttttatt ttgctgcagt 360

cctccttgca gtagttgtgt gttgccaata aaactatcat tctagtacta ctctgaatta 420

agaatccctg gctctgcctt ggcatcattt gattgagaaa tacagcgcgg gtgcagcttc 480

tttc 484

<210> 5430
<211> 58
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f10b1

<400> 5430

tcgtttagct tcaaaaaaaa aaaaaaaaaa agaaaagtta aaataaaaaa aaaattag 58

<210> 5431
<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f11b1

<400> 5431

aaagctggtg cgccggccgg taccgaaccc caattcccac ccacacccac gctttcgatc 60

aaacccccag cgcgcggccc caggggggaga ttgaaaccaa cccggggttg ggaacacaca 120

agccgacgac aggacaccct agacaacaat caagtgactg ccgaaaagac aacaccatga 180

ctggcatggc aagtgtgtca caaatgctag cctgcccgcc acacatcaaa gccggcacca 240

gcgcagcgcg gtcgccaaga gaggccgcac agcagcgacc tgaccaacag tggcat 296

<210> 5432
<211> 507
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f12b1

<400> 5432

ttagctgcat catttctgga tcttcaggga ttgggtacaa tctgtacaga ttttattatt 60

tctgagcttt ggacatcaaa ctttttacaa tatcagttgt ttgcggaaag ccaagactat 120

ggtagtcatg gagagcgtgt cagaaatgct tgctggggtt atctttgtca aagtgctaca 180

ctggaactac gagaggtgct tccaaaactt tcttcacaaa ctttgcatgc tctccttacg 240

tctgacgaac tgtgggtacc taatgaggag aaacggtttg aactagcatt atttgcacta 300

ctggcaaagg tcactgtttc tgatgtagaa gttggtggaa acgaaaattt ggaccttatg 360

gcaagctcat caactgttga ttgttccatg ggaaagggaa agagtctgat gaatgaaact 420

gctgagaagc agctaatgga atctgaacta caagagttga agttgcatga taacatgcag 480

aataaagctg ccaatacatt attgatg 507

<210> 5433
<211> 534

<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075g01b1

<400> 5433

acggtttcgt ttaggcgcat gacgggatga cggagctggc gatgagagac gagctgtaca 60

agatgctgcc cgtgaccata cgcgcggcag tgaatgagaa gctgagggag aggctgagag 120

gagggcaggt ggacgaggag gccgccgcga cagcgatgga cgccgtggac ggagtgctgc 180

ggtggttggg gccaatggcg catgacacgc tgcggtggca ggacgagagg agcatggagc 240

ggaagcaacg gttcagcatg cagccgcgcg cgccgatggt gcagacgctg catttcgcgg 300

accgtcggaa ggcggacgct gccatcgtcg aggtgctcgt tggtctcagc agtatgtgct 360

ggtacgacga tcaacggtgg cggccggctg actggaacga gtagccggcc tggtcaacga 420

cgatgcgcag ctcatcatgt gtaaatgtgt agatactgta tacgtgtagg aaagtcattt 480

gtatacatnc acaagatcat tgatggcacg tgttgttgtg tcaatatatt tttc 534

<210> 5434
<211> 513
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g02b1

<400> 5434

acgcgtacgc tttcgcgcgc ctcccctgac ccgccgcagc agcggcgcca gagcgatcgg 60

ccgccatgag cggcggtggc gccggcgaca cgctggacaa gctggtggtg ttcctggcga 120

agcgcgacgg catcgacaag ctggtgaaga cgtaccagta cgtgtcgaag ctggcgcact 180

gggcggcgga gacgtctcac ccggggctgg ccgggcgggc caagagctgg gagacggcgg 240

ccgggctgag ccgcaaggtg ttccggtcgg ggcggtccct cacgggcttc aacgccgctgc 300

ggcggtcccc gggggagttc ggcgcgctgg ccgtgctggc caacgccggc gagatggtct 360

acttcttctt cgaccacttc acgtggctgt cccgcgtggg cgtgctggag ccctggctgg 420

cgcgccgcgc cagcttcgtg tcggcgttcg gcgagtgcgt cggctacgtc ttcttcatcg 480

tcatggactt catcatgatc aggcgcggga tca 513

<210> 5435
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g03b1

<400> 5435

tactaaggga agctggtgcg cgtccggtcc ggatcgagtt cgtgcagacc cacgcttacg 60

ctacgcgcgc gcgcccgcga ggagggaggc gggctcgccg agacggtagt agctgaagac 120

ccaaagccaa acaggaagta tacgttactg agcacaggag gacacactga gggaaagact 180

gtgacaatga gctaggagca agtcatgaca gaggcctcat gtgacagccg agcactcaag 240

gcaagagaac ggacgcggac ggatcgtcag tggtcgtggt gccgagtcaa actccatggc 300

atgaacaagt cacaggtgca gctgagtcca cctcccatga taaactatga accaccctgt 360

acaaaatgtc aac 373

<210> 5436
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g05b1

<400> 5436

ccacgcttcg gtttgaggca aaaattgcag gaccccgggt acatcatgat ctgcgacaga 60

ggtgcatcag tggagcgaca tgctcggcgc gcccgagggc gcccgtacct tcaagctccc 120

cgaccccatg tactacatcg gctaggccgg ttgctgccac cttagattgc tcctcggtcc 180

tgatccacga gtgaataaac tccatgctct taatcatatg catgcttcgt caataatcgc 240

ccccccccct cccctccctg ttgttgtttg gttaatttcc attgttgaga acttgagatc 300

aattattatg taccccctcca ctaatgggcc aattttgacc cgttggagga agggatcgta 360

attggcggac caccaaacaa cggtcgggag agtcaaccaa gtgcccacat agaggaacga 420

gaagttgtgc ccactgatag tgtacaagtg acgattacga aattgttcct ttgg 474

<210> 5437
<211> 543
<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075g06b1

<400> 5437

tgttgagttg aaggcagctg gcgcttcatg gattcagtgt gatgagccca cccttgttca 60

ggaccttgaa tcccaccaat tatctgcatt ctctgcagct tacgcagaac ttgagtccgc 120

actttctgga ttgaacgttc ttgttgagac ctacttcgct gacgttcccg cagactcgta 180

caagactctt acatcattga gcagtgtgac tgcttatggt tttgaccttg aacgtggaac 240

caagactctt gagcttgtca agagtggttt ccctgctgga aagtacctct ttgctggtgt 300

cgcagatgga cgcaacattt gggctgatga ccttgctgca tctctcgcca ctcttcagtc 360

tcttgaggct gttgctggga aggacaagct tgacgtatcg acttcctgct cactcatgca 420

cactgctgtg gaccttgtaa atgagaccaa gcttgatgat gagattaagt catggctcgc 480

atttgccgnc caaaaggtcg ttgaggtgaa cgccctgcca agcattgctt gtcaaaagat 540

gag 543

<210> 5438
<211> 469
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075g08b1

<400> 5438

gttacttgcg cctaccactg aggagtgagg ctgccacgcc cattcgctag ctagctagag 60

acccatagta caaacaataa tagagcaact gagcacacca ggacacagtc ggtgaagtac 120

tgtgacagtg agctaggttc aggtcatcac aaacgcctca tctccaagcc gagcaccctc 180

gccatgagca cggacgcgga cgccgtgccg gtggccgtgg cgccggcgaa gcgcccctcc 240

atcaacaagt acgccttcgc ctgcgccctc ctcgcctcca tgaactccgt cctcctcgga 300

tacgacatct cggtgatgag cggcgcgcag ctgttcatga aggaggacct gaagatcacg 360

gacacacaga tcgagatcct ggccggcatc atcagcatct actcgctgct gggctcgctc 420

atggcggggc tcacgtncga ctggctgggc cggcgctaca ccatggtgc 469

<210> 5439
<211> 466
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g09b1

<400> 5439

tttcgtttac gcgtgggcgg acgcgtgggt ggaactgtgc ctgttggccg tgttgagact 60

ggtgtcatca agcctggtat ggttgttacc tttggtccca ctggtctgac aactgaggtc 120

aagtccgttg agatgcacca tgagtctctc ctggaggcgc ttcctggtga caacgttggc 180

ttcaacgtca agaacgttgc cgtgaaggat ctgaagcgtg ggtttgttgc atccaactcc 240

aaggatgacc ctgccaagga ggcagccaac ttcacctccc aggtcatcat catgaaccac 300

cctggtcaga ttggcaacgg ctacgcccca gtgctggact gccacacctc acacattgct 360

gtcaagtttg ctgagctggt gaccaagatc gacaggcggt ctggtaagga gctggaagcc 420

cttgccaagt tcctcaagaa tggtgatgct ggcatagtga agatga 466

<210> 5440
<211> 439
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075g10b1

<400> 5440

ttctaggctg agcaaggacg acattgagaa gatggtccag gatgcagaga agtacaagtc 60

tgaggatgag gagcacaaga agaaggttga tgccaagaac tccctggaga actacgccta 120

caacatgagg aacaccatcc aggacgagaa gattgcctcc aagctgcctg ctgacgacaa 180

gaagaagatt gaggatgctg tcgacgccgc gatccagtgg cttgacgcca accagcttgg 240

tgaggttgac gagtttgagg acaagatgaa ggagctggag ggcctctgca accccatcat 300

cgccaagatg taccagggtg ccggtgctga catgcccgga ggcatggacg aggacgcgcc 360

ggctgccagc ggcggtgctg gccccaagat cgaggaggtc gactaaggta ttctcttctga 420

tatagngaga aaatacact 439

<210> 5441
<211> 263
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g11b1

<400> 5441

gtagattgtt gtttcagaag acccatgtaa aattctgatt tgtgtatgat ctgcatacag 60

gctcaaacaa gatgttcaat gtttagttcc cgtttttgtt ctggttatga gttgagattg 120

tacaagctct gtttggtcct gtttgtattg taatatactg atgtgttaat atagtttgtg 180

ccgtttatta cccttgtgga cttaagcatt tccaaaaaaa aaaaaaaaaa aaaaccaaaa 240

aaaaaaaaaa agaaaaaaga aaa 263

<210> 5442
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g12b1

<400> 5442

tcggttgata ggagctgtag cacacacgat cggggacgat catagactcg ttcaggacga 60

ggttgctgat cggcgtcatg gaggcttcaa tggctgcgcg gccatacatg gcagattcct 120

caatttgatc tgaagacgga cctgcggaag atggcggcga ccacacacca gtgcctctga 180

cctgattatg ccccacacca ggcatgtggc tcgactgggg cttccacatg tgtccaagat 240

tccggctatt gatgttagga ttacgcgagt tggctgggtc gtggcccggg tagctctcta 300

tcatcatatc ggataggatt agtggcatat gttgccaata tgatggattc aggcacattg 360

gggtgatact ttgaatggcc atcgtgaata atcaataaag tggccgtatg catcttccag 420

atgcagaggc c 431

<210> 5443
<211> 204
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075h01b1

<400> 5443

ctttatcgcg ggcggccgcc tgccttcgcg ccggtgccat gatttattag ttgtctctca 60

ttatgatgtt ccccttttg tgatcagaaa cttgacaagt tactgtgtgt agaagaacaa 120

catcaccgtg gggtctttgt agcgcttttg tagtccaatt tttaccggaa gggaacttta 180

tagtcgttaa acgagccnna nntt 204

<210> 5444
<211> 326
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h02b1

<400> 5444

taggtaaagc tggtgcgcgt gccggtcccg aatcgccatt tcctcccact cccacgtgtc 60

cgctttcccg tccgaatcgc ctgctgcagg ggcgggttca gttacagacc gggcccaagt 120

cccctgcaaa ggggcgcctg ggagggtgag agccccgtac ggcccggacc ctgtctcccc 180

acgaggcgcc gtcaaccagt caggttgttt gggaatgcag ccgaactcgg gctgtagact 240

ccgtccaagg ctaaatacat gccagagacc gatagcgaac aagtaccgca ggagccaaca 300

tcttaaaaca tgatgctcgc acctac 326

<210> 5445
<211> 257
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h03b1

<400> 5445

acgcttatcg cttacgccca cgcgtccgcc cacgcagggg catgtgtcca taaggatctc 60

cacagggaaa ggcatccaag cacactgatc tcacaatctg tttgtccggg cacatctaat 120

gagccacaca ttcatgaaca actggagcga aacaaaagcc tatggtccct ttgtgcctgc 180

taagatgcaa cagcagcttc aatacaggct tacagggatg cccccgccta cggaaaacat 240

gatgccccca ccggaaa 257

<210> 5446

<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h04b1

<400> 5446

acgcttacgc tttcgagtga ctacaaactt ttgaagaaac tgggagctct aggtgtcttt 60

gacgtctacc cgtgagacag gcccaaaaat acgtattata atttgtggtt tggttcacaa 120

gatgtgctct atgggggttg tcttactttg tcaggtacgt ttcaaggaga atacaaggta 180

cgagcgagca tacggagtgt tatgcatatg ggtgtcatgc attcttggta actttccggt 240

ccgtaaaatt tccattcggt taagtactaa agcacacggt gtgcttttct gtgtatcatg 300

ttcacggtta ctacaaccag aatgtgatgt ttgttgatgt gggtaccatg taattgtctc 360

atgttaacta tcgcttatga tgtctaatat gttgagtttg tgttgaatac atgtatatgt 420

tggagtaatc caatggcgtt tgataggagt tgggtcgttt tcccacacc 469

<210> 5447
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h05b1

<400> 5447

acgatttctc ttcttcaccg tccgcccgtg aaggaaggag gggatcggcc atggggaaga 60

tgtgctgcag ccaggaggag gacgaggcgg ggttcaacct gctgccgctg gtgatggccg 120

acttcgtcat catgctgctc ttcgtcgtct gctcgccgcc gccccggcgc aggcgctgcg 180

tcgtcgtacc gtgctactga cctgacctga cctcatggtg gccgggtggt gggagcctcg 240

atcggcggcg ctgcaggcag gcaagtggct ggtgctgtgg taggcgtttg tttggtaggt 300

gtctgaattt tctgactgat gcctgttggg cggaagaata aatctaattt ctgctg 356

<210> 5448
<211> 535
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h06b1

<400> 5448

acggttacgc tttcattcag ggaacaagcc gtcctgctca ttgtcacgtt ctatgggacg 60

agaacaaatt cactgctgat gagttgcaaa ctctaacaaa caacttgtgc tacacgtatg 120

ctaggtgcac ccgctctgta tcaattgtgc ccccggcata ttatgctcat ttggcagcct 180

tccgggctcg gttttacatg gaaccggata cctctgacag tgggtccatg gcaagcggtg 240

cccgtggccc tacacagggt ggacgcaata ccaggccgtt tgggaacgtt gctgtcaggc 300

ccctccccgc cctgaaagaa aacgtgaagc gggtcatgtt ttactgttaa ggtcggatgg 360

tcattgttta cactattatg caaacctgaa gatattcgac tgagtttggg tgtgttaaaa 420

gtatccgcac tgcattggtg gcactgggag atctccgcca tgcaaaaact ttaagtggtg 480

cgcaatgtga aactctgtaa ccgactacct atctgtggtc gtatttgaac taccc 535

<210> 5449
<211> 306
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h07b1

<400> 5449

ctgtatcatc cgaaaggtgt gctctagggg cggctttata tacggaccgg gcccaagata 60

cccaggaaag gggcgcctgg gagggtgaga gccccgtccg gcccggaccc tgtcgcccca 120

cgaggcgccg acaacaaatc aaaaggggtg gaaattctgg cggacccaaa ctttataccc 180

cgttcacgcg ccaatacagg cttagaaaag ggtcccctac atggacccca agggccaatt 240

ttttacaacc cttttacggg gaaacccctg gggaaaccca attgaatccc cttgcaaaac 300

accccc 306

<210> 5450
<211> 443
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075h08b1

<400> 5450

cttacgcgtc cggtgcacct gtgccacggg cttgtgccaa tgggaatgtc ccaggacaga 60

tgcaacatgt cagaccgccg ccgccacctg ttggtcaata ccctcccatg cagatgcatg 120

gacagcctgc ctggcctggt cctccacaga atatgcaaca agtaccacct ccgatgcaac 180

agcagcttca atacaggctt ccagggatgc ccccgccgcc gcaaaacatg atgccccccac 240

cgcaaaacat gatgccgcca cctcatcaca tggccaggcc gncgccgaca cctaccaata 300

tgcaagctcc acctatgtgg aggccacccc caccccccaca acaaggtggt ggaatgccgc 360

cacctccaat gtccatgcca cctactccac cgncacctta tggttaaaaa tacaaatggg 420

tgtcttccat gggttaattt ggc 443

<210> 5451
<211> 177
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h09b1

<400> 5451

tttcgtgtct ggtgatgcca tctgtactag tggcccagga cagagtcttg aacggcgaaa 60

agaagaccaa gaccatacac gcggaagaga atgagaagct gagggcgagg ctgagaggag 120

ggcaagtgga caaggaggcc gccagagaca gagattgacg ggggggccg ttttctg 177

<210> 5452
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h10b1

<400> 5452

ttacggtatc tcgccacggc ggcggtcacc agggcggggg tcaactagat gcaggcttcg 60

cagctcgccg aggcacgccg caacgccacc aggctgagga gggaggtcga gcgccatatc 120

cgcgccaacg tcgcgctagc cgtgccgacc accagggcca aggtgcatgc ggccatggac 180

cgagcgctcg cgctggactg catctacccg atgccgatgc ttcgggacat gcccgagaag 240

atacccaagg ccgtcgagcc cactcactag cggacgcgcc gttccgcctt gtaggagccc 300

aacaacttaa agagctacgg gcgtgcgtga ggcacatcct gcaacggatg ggcccaagat 360

caccaggacg agatgcgagg ca 382

<210> 5453
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h11b1

<400> 5453

cttacgcgtc cggacacatc gccccaaagt aggtcgaatc taagcgatgg cgtctcgtct 60

gcttgcggcg gcctcctcct cctcctcgtc ttcctccccc ctcgctcgcc tcatctccag 120

ccgccgtatg gccggcgccg cagatcacca cggatcgaca aaggtgaaca tgtggcagga 180

gcccttgaac cccggcaact ggaaggaaga gcactttgtg ctaaccagct tagcgatgtg 240

gggcgctatt atatatggtg gattgaaggt gtttggcggg aaaaaagaag tgaaaaccga 300

ggcggggtca gcgccagcag cagcaccggc acattaaact tcatccgagc tttattttct 360

taccgcaatc tgttttaagt atgttgttga cgataaattg agaccaagtt tgtaaggctg 420

gcaaggttaa ggagctgcgc tgcccagcca ccatgaataa tctgaacgtg gtgtaacttt 480

catcc 485

<210> 5454
<211> 62
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h12b1

<400> 5454

tttcgcttac gcgtccggaa aaagaaaaaa agaaaaaggt aacaaataaa agagacgagg 60

ac 62

<210> 5455
<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a02b1

<400> 5455

gtttatcttt atgatacatg ctacaacact ggactgtgtg aacattgtac accatttccc 60

accctcatag aacagaagca tatatcataa ggatgaacac gaacagtttg aaataaatgt 120

gctctcatgt ttggagaagt tgttcatgta tagcagctgc tacgaaaatt tgtgcatgta 180

tagcaactgc ttggaagtcg taatgtacaa tttgtcattt gcccgttcca aaaaacattc 240

ggtactgaaa aaaagaaaaa gaaaaaaaaa agacaaatga aaaaaataag gaacacaaga 300

aag 303

<210> 5456
<211> 324
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a04b1

<400> 5456

ggcctacgct tcgcgtctcg acaacattca ggtcgaccat gcgaagggtg caactgagac 60

ctacaatgtg ccttgtcaga acgttcgcag aggacgaaag ggtgtgatgg ctacccgcgc 120

caccaggctg ctcctggcac ttgtcggggt ctacgctgga ctccgctccg actgccggca 180

aggcatcact gacgcttccg gcgatgctat attggagcct gtgctcgtcg cgacacctga 240

gcggtgtctg cctgcgccat gatctgaaga aagcacaaga gtaagcgtcg ggctgtctat 300

acgtactcga ggttatgttc ctgc 324

<210> 5457
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a05b1

<400> 5457

cacccgtctg aatttggtct tcggaaggca cttccagatg gacagggtac aagtaaagtg 60

acgtccgtga agttcgcagc tagagcaaag tatgtcggta gagggatcct ggaccaccac 120

cgggacgggt cacgactacc tggagatgag caactggagg aggcaaaatt agagtcagcg 180

gggcaatgag tagatggtac atatctccga ttatgctcag gatgcatgaa ccattttgac 240

gatggtagtc cacgtaacca aggatacgct tgaaagagga atatgcatgc ccctgaactg 300

aagcaggccg gcggtccaag tggtccatca aacctgtggg gcgagccaca tgttttttatg 360

taattcgacg acgtttgcac tcgacgaaat atctatc 397

<210> 5458
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a08b1

<400> 5458

ttctcctcgc gtccggccta cgcatccaga gctgcaagcc ctatgtgagg cgaggcgtgg 60

tgggtgaggc catggatccc gattcggtct cgaaggcgtt cgtgcagcac tactaccaca 120

cgttcgactc caaccgcgcc gcgctggtgg ggctgtacca ggacggctcc atgctcacct 180

tcgagggcga gaagttcggc gggcccgccg tcatcgtcgg caagctcgga tctctctcct 240

tcagcagtgc cagcacaaga tcgacaccgt cgactgccag ccctcggggc cccagggcgg 300

cgtactagtc ttcgtctccg gcaccatcac caccggccca ggcgagcacc ccctcaagtt 360

cttacagatg ttccatctgc tgccagctgg agggagcttc tacgtgcaga acgacatg 418

<210> 5459
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a09b1

<400> 5459

tttccctcgc gtccgcgcac ccgcacagcc catgggcggc ctcgctggag aagagagaag 60

atggtgagag atggaggcgg cggcggcggc ggccggcgtg cagctgggca cctcgaagcc 120

gcagatcgcg acccaggcgg agatggcgga ggcgcgcctg ccgatccccc accgccacca 180

gtgcgcgcac ctcctcatcc cgctcaacaa gtgccgcgtc gccgagttct acctccccctg 240

gaagggcgag cccgagcgcc actcctacga gaagtgccag tacgagctcg tcatgcagcg 300

gatgctccag atgcagaaga tccgcgaggc gcatgcgggc gccaaggtca agggcagcgt 360

caccatcggc gtgcccccctt gcccc 385

<210> 5460
<211> 512

<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316076a10b1

<400> 5460

tcgctttctc gcagaacaat ctcctcgacg ccgcgaagcc tgcaacagag ccctacaact 60

ttcctcgcca gcatctccgc gaaggacgaa agggtgtgat ggctccccgc gccgccgtgc 120

tgctcctggc catggccgtg gcctccgtct tcttcgcctc cgcgtcggcg cagggcatca 180

tggcgccttc gtcggctcct tcatcggcgc cggcgcccgc gccagacacc ggagcggcag 240

ctggcctcgc cccggtctcc gccgtggccc gtggtcgcct ccgcgcttgg tgtccctgct 300

cgcggcgatg ctcctgcagt agagatgatg gctgcgcttc gcctgngtga tcggtttcta 360

tacataccgt cttcgttagt gctaggctag atcggtggtg gtttgatgag tctctgttgc 420

agagtttggt cgatcggctg atctgttagg cattctttct ctctgtcata catatatccg 480

ctacattata ctgctgtgtg ccctgattta ta 512

<210> 5461
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a11b1

<400> 5461

ttgatttagg cctccggaag gcacttccag atggacaggg gtgaagtaat cgatggtcct 60

tgcagctcgc agctagatca cggcgtggcg gtagtgggat actggtccga caaggggaag 120

ggtcacgact acatgatgat gaggaactcg tggagtgagg agtggggcca gacgggctat 180

atcaggatga agaggggcac cagcatcggt gagggcctat gcggcatcaa caagatggtc 240

ttctacccaa ccaaggacaa gtaatgttcc agcctcaaat gctgcatcca caggattgaa 300

gatttgaacc atacttgaga gtccttgctc ctgatctttg catttccctg catttctttc 360

acgttttttt tctttctcaa agggttcttt tcgttaaaat ggaccaacat ggactgaaat 420

aataaaattt atttcca 437

<210> 5462

<211> 449
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316076b01b1

<400> 5462

cattaattct gctcagagga agctcctcga tgagcggggc atcccggctg aagatgtgcc 60

tgttgaccag ttcacccctc tcggtcggat gctttacaag gcaccatctg atgggaaatg 120

gggcgaacat gagctggact acctgctgtt catcgtgcgc gacgtgaagc tggtcccgaa 180

cccggacgaa gtggctgacg tgaagtacgt gagccgggag caactgcggg agctcattca 240

gcaggcggac accggctagg gcggcgtgaa gctgtccccc tggttcaggc tggtggtgga 300

caacttcctc atgggctggt gggagcactt ggagaaaggc acgctcgcgg aggcggtgga 360

catggaaacc atncacaagc tcaagtgagg acgccatctc ttgatagctg attgtgtgct 420

gaaaaagaac ttattcacag gcagctaga 449

<210> 5463
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076b04b1

<400> 5463

cttttcagtt aacagagagc tctccgtgaa tgatggcgag gatgaggaag aagaagaagt 60

gtggagcacg ctgctgctac ctggtcgcgc tctcagcagt gtgaatttcc agaagcatgc 120

ttgccgtgcc ttcttccggg tgcaccggag gccggcatgt gagcaggggt gcttcagtga 180

tgcagaagaa aaaaggcaag tcttattggc atgggaaggc tacgccttta ttccaggtct 240

gcctctctcc atctaaatcc gtgtttggag gaggggggcta cggttagttt acccaccggt 300

ttaccgtgtc cttgtgagtt gcggtcatta tcatgcactc gtcagttgct tgtcatgtat 360

ggtgtccttg aattttcagc tacataatgg tcggttgtgt cagtgaatgg gagtgtgttc 420

atg 423

<210> 5464
<211> 420

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076b05b1

<400> 5464

gtttggtctt ggacctggct gcctccgcgc gctgcgccag acagagcgcc ccggtgctcc 60

cccacctccg ctagactgct gcgccgccgc tctgagcgcc ggcccctctc taactccggc 120

cctgctcgac tgcgtacgtt ccggtgctcc cccgcctgta ttagtctgct gcgccgccgc 180

cctgggcgcc ggctcctctc gacctgctgc gctgcccgcg attctgcgag cttgccatta 240

acaggtcacg ataagcaggg gcacaagtgg ttttacgcaa tgggtcattt caagaacagg 300

tacatggtga tggaggtctt catcgacgct agcagaggag aggctgatcc tgtcatcctc 360

acccagttca acataaccaa agtgatcaga gacagcatcc agctcaactc tggggaatgc 420

<210> 5465
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076b08b1

<400> 5465

tgccctcgcg tccgcccacg cgtgcgccca cgggtccgcc cacgcgtccg cttcccttct 60

tcctcctcgt cctccaagcc aagccaagaa actcctcgtc tctccaccct ccgtccgtga 120

aggaaggagg caatcgggta tggggaagat gtgctgcagc caggaggagg acgaggcggg 180

gttcaacctg ctgccgctgg tgatggccgc cttcgtcatc atgctgctgc tcgtcgtctg 240

ctcgccgcag ccccggcgca ggcgctgcga cgccggcccg tgctactgac ctgacctggc 300

atcatggcgg tgcggtggtg ggagcctcta ccacgatcgg cggctctgaa ggcaggcaag 360

tggctctgtg gtggtaggcg tttggtaggt gtctgaattt tatgactgat gcgtgttggg 420

tggaagaata atctcaatgt ctgctgaatt cgatcggact gttaagc 467

<210> 5466
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076c03b1

<400> 5466

gggcaaattc ctagagcttt tctcgccgct gctccagcgt gcttcactca gcaccggtgc 60

tggttcgggg tatctctacc acggtcgtgg tcgcccaact ggtcgaaaga tggcccgtct 120

gggcctgtgt ttctttgcgg atgaggccat gacacaaggg gtggtcccaa ggacgttccg 180

atcgaggtgg gaacagagat gatgttatgg atggctgaca gggacatagg aaacactggc 240

gagcttttta gccgggttac acatggatgt tgtgagaagt gcatttaaaa aaggcattaa 300

gaaggtgaac tcaatatggg agagaacaga agcattgatc 340

<210> 5467
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076c12b1

<400> 5467

ttggtttcct gctagggttt tggtccttcg ttttcggcgg ttcatgatgg gggagagggt 60

catgggaacc gtgaagtggt tcaacgtcac caaggggttc ggcttcatct ccccggacga 120

cggcggcgag gacctttttcg tccaccagtc cgccatcaag tccgacggct accgcagcct 180

caacgagaac gacgccgtcg agttcgagat aatcaccggc gacgacggac gcaccaaggc 240

ctccgacgtc accgcaccag gaggaggggc gctctccggc ggctcccgcc ctggcgaagg 300

cggctggtga ccgcgggggc cgcggcggct atggaggcgg cggcggtggc tactgcggtg 360

gcggtggtgg ctactgaggc ggtggtg 387

<210> 5468
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d01b1

<400> 5468

cctttgtttt gctcatagtc cttttcttct ctttgggtgt acttagatac ttgtgtcgag 60

atatacatca agatggacaa cccttcgagt acgcaggaca tgtcctacta tgatcatgtt 120

cagaagcgcc atgaggagaa aggctgctta tatgcatgcc tgtttacact gtgctgttgc 180

ttctgctgct acaagacctg cgagtgctgc atggagtcct tgtgctgctg cggctaattt 240

tagctgcaca tttctgctgt tgcatggaga tctggcaggc tgggctgtac tgtggaaacc 300

catatcgttt cgcctcggtg agatgatgaa caggcatatg tgcttgttcg aataaaaact 360

gtagttacgt ctctattgtc atgtatattg ttggtcgcca aaaataagag agtatgctgt 420

tgggtgtgtg ttgcctttga cgattgtcat gtatagtgct gtcatgtcta tggggata 478

<210> 5469
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d04b1

<400> 5469

ccttcgctat cgcccacgcg tccgcccacg cgtgcggggg tcttcttccc actcaggcct 60

gggttcccgg cccggttcgg ttcgttaggg tttagtagtg gggaagagga ggaagaatgg 120

cggacgtcga gtaccgttgc ttcgtcggcg gtctcgactg ggccaccgac gaccagtccc 180

tccagaacgc cttctacaag tacggcgaca tgatcgactc caagatcatc actgacaggg 240

agacgggccg ttcccgcggg ttcgggttcg tcaccttcgc gtcggacgag gtgatgcgcc 300

aggcgatcga ggccatgaac ggccaggacc tggacggacg caacatcacc gttaacgagg 360

accattcccg ccgctccggc ggaggcggc 389

<210> 5470
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d06b1

<400> 5470

ctctcgcgtt cgaccacgcg tccgtcaacg cgtcggccaa ggcgtccgcc aacgcgtccg 60

tggacttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa ataaaaaata 120

aaaaaaaaaa aaaaaaaaaa gggggggccc cttttaaagg atcaaagttt acgacccggg 180

gaaggcaaag caatagtttt ttaatgggga aactaaaatt aaattaatgg gccgcggttt 240

aaaaacgtgg gaatgggaaa aacccggggg taaccaaatt aaatggcttg gaagaaaatc 300

ccctttggc aagtgggatt aataacaaaa aggcccgaac ggatggcctt tccaaaaatt 360

tgacaaactt aaagggcaaa gggaaccccc ctttaaaggg cctttaaagg gggggg 416

<210> 5471
<211> 57
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d07b1

<400> 5471

tcggataaac tgtacctgga gctgagtttt tgtcacccct actttttgg cccctcc 57

<210> 5472
<211> 471
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d08b1

<400> 5472

ttggtttatg ctccagcctg agaagtttgg attctacaag cagttaccta gggcatgctg 60

tggggctcct gggtccgttg ccaaagccgc ttacaacttc aacgtgacag ccaaatgcgg 120

ggagcctggt gccactgctt gtgctgaccc aacgacccat tggagctggg acggtattca 180

cttgacggag gctgcttacg gtcatatcgc caggggttgg ctatatggcc ctttcgcaga 240

ccaaccgatt gttcagtcct cgtgagcatt ccacctctgc tgttgcactt gtagagcgtc 300

tgagaatagc acactaaact ggagaaggga aagtagttct tccatatagt tccaatggtt 360

catacgtgta tattttcatt tgattgaatt cattgcaagt ggggtaaaaa aaagataccc 420

tttctaaaaa acaaaaaaaa ggtttcggca ccttaaccga accaaacttt c 471

<210> 5473
<211> 216
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d09b1

<400> 5473

ctttacatcg tgatgttgtt ttacctttgg ggtgtcattg tcctgctata acggatagcg 60

ctccctgttg gcgccgccgc cggcggggat gccctagtgg tggagggtgt atgtcctctt 120

ccgcggggtg cccctgcttg tacctagatg gttactcttt ccgtccattg tcaccggcta 180

acattgtgat aatatcagtc tgggtaatgt tagatt 216

<210> 5474
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d10b1

<400> 5474

tttcgttcgc gtgggcggac gcgtgggcgg acgggtgggt tgactcgtgg gcggacgcgt 60

gggttgttgg gttcatggcg agtctggtaa agtctgcggg gatacggaaa ctccgttgat 120

ctttggtgaa agttacctaa aaaaaaaaaa agaaaaaaag aatgaaaaaa aacaataaaa 180

taaagaaaaa aaataaaaaa aaaatgtaaa aataataaaa acaaaagaag aaaatgaaaa 240

taagaatgga aaaaataaaa aaaggggggg gccgttttga gggctcaaat tttccctggc 300

cggggttgca caacattttt ttttttatag ggccccctaa tttaaatctt tgggccccctg 360

ttaaaacaac ctctaatggg aaa 383

<210> 5475
<211> 529
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d11b1

<400> 5475

ttgcttttgc gtccgcccac gcgtccgcaa aagggcacac tgcaccaccg cacacagatc 60

taaccgaaac ccacccccac cggcggcgag ccgccgacga gccagccatc caagatgcag 120

tacaacaacc tgggacgggc gggcctccgc gttagccagc tctcctacgg cgcgtgggtg 180

accttcggca accagctcga cgtcaaggag gcgaaatccc tcctccaggc ctgccgggac 240

gcgggggtca acttcttcga caacgcggag gtgtacgcca acgggcgcgc cgaggagatc 300

atggggcagg cgatccggga cctggggtgg cgccgtgccg acgtggtcat ctccaccaag 360

ctcttctggg gcggccaggg gcccaacgac aagggcctct cccgcaagca cgttgtcgag 420

ggcctgaaag cctcgctcaa gcggcttgac atggagtacg tcgacgtggt ctactgtcac 480

cggcccgacg ccaccacgcc catcgaggag acggtgcggg ccacgaact 529

<210> 5476
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e02b1

<400> 5476

attttgatcg gtgccctttt ttttttttt taacgcaaac cggttaggat accgatcgat 60

cataggtgga actgacactg tgacacacac cgtaacaagg ctccagctaa gcagacgcag 120

actcaggccg gcgagagtgg gactgcgtac ctcgctgttg accgacactg ggcgtatacc 180

cgacccgaca acacttttat ttagcccacg tgacgcgacc ccgcgcatag cactcccact 240

ccacacctag taaaaagtat cattccactc cactccactg gctgactcag catcacgccg 300

tgccacgtag gagcacacgg tcgccgccgt ggaagctgac ccggccagat gctcctccgc 360

gcgcgccgga gcctcacacg ctgacgctgg ccaccgcggc ggtcggc 407

<210> 5477
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e05b1

<400> 5477

ccctcgcgtc cgcccacgcg tccgggcttc ctacggacta aacagtaaac agagagcttg 60

ctctccgtga atgatgtcga ggaagaagag gaagacgaag aagcagtgtg gagcacgctg 120

ctgctacctg gtcatgctct cagcagtgtg aatctccaga agcatgcttg ccgtgccttc 180

ttccgggtgc accggaggct ggcatgtgag caggggtgct tcagcgatgc agaagaaaaa 240

aggcaagtct tatcggcatg ggaaggctac gcctttcttc caggtctccc tctctacatc 300

taaatctgtg tttggaggag ggggctacag ttagttcacc caccggatta ctgtgtcctt 360

gcgagttgtg atcattatca tgcactcggt agttgcttga catgtctggc ggtacctctt 420

gaattatcag ctacatataa t 441

<210> 5478
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e07b1

<400> 5478

ttgagtttat cagccacaac tcctctccac tgtttggggt gatataaggc acgacccttt 60

ttgttttgta tgatgagata tgcagcttat gtgtgtaaac agtctagcac ttggacatca 120

gctggttgaa cttgtataat attatgtcgt ggaattgccg gccttcataa aaaaaaaaaa 180

aaaacaaaaa aacaataaaa 200

<210> 5479
<211> 486
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e08b1

<400> 5479

tcgctttcct gcctcccccg gagctcgtta gggttttctg ttttttcggg ggagaaatct 60

caagaggcgg caccatgctc gtgtaccagg acaagctttc cggcgatgag cttctgtcgg 120

attccttccc gtacagggag ctggagaacg gcgtgctctg ggaagtcgat ggccattggg 180

tcgttcaagg agcagttgat gtggacattg gagccaatcc ctctgctgag ggtggtggtg 240

acgatgaggg tgtcgatgac caggccgtga aggtggttga cattgttgac accttccgtc 300

ttcaggagca acctgctttt gacaagaagc agtttatctc tcacatgaag cgctacatca 360

agaacctcac tgccaagctt gaaggggatg acctagatgt tttcaagaag aatgttgaga 420

ctgccacgaa gtatcttctt agcaagctca aggaccttca gttctttgtt ggcgagagca 480

tgcatg 486

<210> 5480
<211> 534
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e12b1

<400> 5480

tcgctgtcgc gtgggggccg gtggactgga cctgctggcc ctcgtcagcc tctacgacga 60

cgcgcaccgg cacacgcagc agaacgcaag ctacaacccc tgggagcagc cggccccggc 120

ttcatcggct ccgatgatgc agcagcagta tcagcagcag ccgatgcaca acccgttgta 180

cgcctcggcg cagcagcagc aggccttcat gctccagcag cagcaggcct tcgtgctcca 240

gcagcagcag cagtaccagc agatgatgat gatgggcgcg ccgtcgctcc atcgccaggc 300

gtcctccaac ccgtcgctcc atcgtcaggc gtcctccaac ccgtcgctcc atcgccaggc 360

atcctccaac ccgtccttcc atcgccaggc atcctccaac ccgttcgaca gatcgtacgt 420

gccggcagcc gccgcggcgg tggtggctac ccttatgctc cggcgatgca gctccacacc 480

ggcaacgcct ataccggaac ccgcatgatg taaagatgct tgtgtggttt ttct 534

<210> 5481
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f01b1

<400> 5481

aattaattta taaaaaagga aagaaggaag agccgtcggc cgtggcggca gcgtgggaga 60

gcctgtgcgc gctgagcctg tcgcccatct cggcgcaggc cgtggccaag atcgtctcgc 120

agctgcaggc ccaataatga actgctcgat tcgattgatc gccgcgattc tgtccgcgat 180

tcgtagtgat gcatgctatc tcgcatgatc tgctgcccca tgttctagta gcctcaaatt 240

attggtgttt ccagttccgc cgatataaat tatctattat tattacaggc gaagaaaaca 300

tggttcccgt agtcacggga gtagccatt 329

<210> 5482
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f02b1

<400> 5482

acttcgctgt tcggtaaaat ctgttctcag gatgctgcaa aagtcatcaa ggccagaatt 60

gcgacgaacc ctaactcgtt gaacttcaac gtcatggttc tttcaaaaca gtgaatcggt 120

gatgtaaggt ggaatggata ggcttggtct tttccattct catgggctgg tgcctgatag 180

tcagcatagc ccgtcggaaa aacagagact tgttgcctaa aagtaaactg tgctctttgt 240

gcagaagtta tgtctttgtc ttctggcttt tgtatcagaa ataaaaaagg agtattagtt 300

gctggattgt taaaaaaaaa ataactgtaa aaaccatc 338

<210> 5483
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f07b1

<400> 5483

ttgccaaata tcaacagcaa tgggagcatc tgtcttgata tcttgaagga gcaatggagc 60

cctgcattga cagtttcaaa ggtgctcctt tcaatctgct ctctactaac ggacccaaac 120

cccgacgacc cgttggttcc ggagattgca cacatgtaca agagcgaccg tgcgaagtat 180

gagtccacag cgaggagctg gacccagaag tatgcaatgg gctgaccctg gagccgcgct 240

tggaggatga tgttggggcc atcttcgctt gttacaccta atgtatcttt gttcctgttc 300

tgctgctgct atatgggatt gtactgtcca cctacctgac tgaattcaag tgtcatattg 360

tgaagtgatg gcagatggcc cttatgggtc tatgggtgca cccatccaac aaattaatag 420

agatgggaac cgaaacttaa gttgttct 448

<210> 5484
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f09b1

<400> 5484

tcgggtgaac atgcgtggca tctgcttcga ggtctgtgat gttgttctcc acactgatgc 60

tattcacagg ggtggtggtc aggtcattcc cacggccagg agggtcattt atgcttctca 120

gctgactgcc aagccaaggc tgctggagcc tgtgtacctg gttgaaatcc aggccccgga 180

gaatgcgctt ggtggcatct atggtgttct gaatcagaag agagggcacg tgttcgagga 240

gatgcagagg caaggtaccc cgctctacaa catcaaggcc tacctccccg tcatcgagtc 300

ctttgggttc tcaagcaccc tgagggctgc gacgtccggc caggccttcc tccagtgtgt 360

gtttgaccac tgggacatca tgggcttcga tcctttggac cccggcaccc agtctgcgac 420

gcttgtcacg gagatccgga tgaagaaggg gc 452

<210> 5485
<211> 535
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f10b1

<400> 5485

ttgtttatcc ccaaatcccc aaccccgact gacgacgagt ggaactgttc cggcgctttc 60

tgccggcgtc gaccatggcg gcttccaact ccggcggcat ccccatcaag gcggaacagg 120

attcggatgg ctcggcccag agcacagctg atatgactgc ttttgtgcaa aatcttctag 180

ttcagatgca aaccaggttc caaactatgt cagagaacat cattacaaag atagatgaaa 240

tgggtgcaag aatcgatgaa ttggagctga gcatcaatga cctcaaggct gaaatgggca 300

gcgatggtat gacccctact aaagtgaagg acgaagaatc aaagccagca gacagctctg 360

cctgatttaa gcagaagtag cagaagcaag tcgtattagg cttggctcca tgtcaatatc 420

atcagccatt catcactaac ttaatgcatg ttatgagatg gtattcgcac tgttatatgc 480

atttgagatc tacagtacct gtcgtgagag atctcttttg atgcattgat gcttg 535

<210> 5486
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076g09b1

<400> 5486

ttgagttcag ccacagagtc acacaagcac tagcttcagc tagccagcct cagccactcc 60

gggcattttc ttgcatccac gacggcaatg gccaccgctg atgtccagaa cccgacggcc 120

gtgctgacgg aggaggcgcc cgcggtggag acgccggtgg ccgccgagga ggccccgaag 180

acggaggagg tcctcgcgcc ggcggaggcc gaggtcgagg cgtctgcccc cgtcgaggtt 240

gaggcgacca aggaggaggc gccgggcgcc gctgagacgg aggaggccaa ggagaccgag 300

ccagcagctg cggccgagcc ggaggccgag gcgcccaaag agccagaggc gccagccgtg 360

gtcgagacag agaccaagga ggccgtggca gaggccgagc cggcggtggt cgaagaggtg 420

aaggaggagg ccgcgcctgc tgccgag 447

<210> 5487
<211> 530
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076g11b1

<400> 5487

tttgtttgat ctgcactagt caccgcaaga accaccacca catgtgagtg actgtccgtg 60

caaggaaagg cagggagaga tggcaatgag gccgctcgtc gtgctcgccc tggccgtggc 120

gctggccggc gtggcgctgg gaggggggcgc ggccgagggg gccggcgagt gcgggagggc 180

ctcccccgac cggatggccc tgcgcatggc cccgtgcatc tcggcggcgg acgagccgga 240

ctcggcgccc tccagcagct gctgctcggc ggtgcacacc atcggcaaga gccccagctg 300

cctgtgcgcc gtcatgctgt ccggcaccgt caagatggcc gggatcaggc ccgaggtcgc 360

catcaccatc cccaagcgct gcaacatcgc cgaccgtccc gtcggctaca agtgcggaga 420

ttacacgctg ccttgatggc ccggcaatgc tgccgatcaa gatgaatgct gtggaaggtg 480

tcgtcgtgtg ggaataagcg agtggtgcat gtaccactta tgtggggcac 530

<210> 5488
<211> 532
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076g12b1

<400> 5488

tctattcaca cgcagcacgc atccccgacg acgagcggcc cgtagccact cctccttggt 60

ccggcggcag cggaacgcat cgagatgtcc aagtacgtgg agctgctgga catggccgtg 120

cgcatcgccg ccagggtcca ctcccactgc ccgcagacgg cgcgcatgta ctacaagccg 180

ccgcagtcca cctcctcgtc gtcatcgggc gccgccgagg ccgacacgac tgatccgagg 240

gcagccggct ttgacggtgg cgaggacgtg gcggctggct tccgggcctt cgcagcctcg 300

ggagctctcg gcgccggtcg tcgtacagcc gcggttcggc ttcgacaccg cgcaggtcgt 360

catctacgag gtcgtatgag ttgaggctcc gaacaacgag ggcgggctct tctggggaga 420

gatctcttcg atgagaatat ttatgaggcc atggaagtgg tcgatttatg acaccattct 480

ttaattagtt tgcgtacatg ccggaagaat tgatcacaga agagtttttt gt 532

<210> 5489
<211> 492
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076h02b1

<400> 5489

cacccgtttg agtttccggc tacactacta gcgtccggcg ccgagggcct gttcctctcc 60

tccgccatga tggacctgga tccccgcctc tacgaggacg cctctgtcag cgataacgat 120

gttcgcaaca tagtgctatc ttatcttatg cacaattgtt ttaaggagac cgcagagacc 180

ttcctatcca gcactgggct aaagttacct gttgattata ctgtagatgt ggataaacgt 240

aaagcgatct taaattttgt ggtggaaggg gatgccgtga aggccataga actgacagaa 300

gagttggcgc ccaacttgct agagaatgac atggatttac attttgatct tataagtctt 360

cacttcattg agctaattcg ttccagaaaa tgcacagaag cacttgagtt tggccagaaa 420

aagttgacac cctttggtaa agtttccaag tatgttgaga aattagagga ctttatggcc 480

ctcctagctt at 492

<210> 5490
<211> 243
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076h04b1

<400> 5490

attttcttta acgtatcgaa gccgaggaga gcggagcagc ctacgagccg ccgatcgaca 60

tgggtctcaa ggaggagttt gaggagcacg ctgagaaggc caagacgctg cccgacacca 120

ccaccaacga gagcaagctc tgcctctacg gcctctacaa gcaggccacc gtcggtcccg 180

tcaacaccgc ccgccctggc ggcctctttg atatggcccg catggccaaa atggatgctt 240

gga 243

<210> 5491
<211> 537
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076h05b1

<400> 5491

gctgttattt cagcaggcga gcgagatggt gtttgggaag aaccagatga ccagggccta 60

ctccaagcgg ttccaagtga agttcaagag aaggagacag gggaagaccg attacagggc 120

caggctcagg ctcactaacc aagataagaa caagtacaac acgcccaagt accggtttgt 180

tgtacgattt accaacaaag atgtcactgc gcaaattgtg tacgctacca ttgctggtga 240

tattgtgatg gctgctgcct attcccatga gcttcctcgg tatggtcttg aagttggcct 300

caccaattat gctgcagcgt actgcactgg tctgcttttg gcccgacgtg tgctcaagtg 360

ccgtgatttg gatcaggaat atgagggcaa tgttgaggcc accggggagg acttctctgt 420

tgagccagct gatgagagga ggcctttacg cgcgctcttg gatgttggtc ttattaggac 480

cactactgga aaccgtgtgc ttggtgccct cagggagctt tggaggtggt cttgata 537

<210> 5492
<211> 93
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076h07b1

<400> 5492

tttggttccg gcccagacga ctaacgacca aaggggggg ttagcttaac aactgcgtgc 60

ggttataccc acctccccgc aaaaagaact acc 93

<210> 5493
<211> 191
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077a04b1

<400> 5493

atttctttta tataaagcac aatcggcgca aaaaaggaag ggtcaaatta taacgtttgt 60

gtgcgctaaa gaactctttt tttattatta ctaaaaatat gtataccgga tctaacttat 120

ttgctatcat tttctttctt ctgtgtcaca aaaaaaaaga tgaactgaaa aactaaaaaa 180

aataaatggg t 191

<210> 5494
<211> 470
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b01b1

<400> 5494

ccctttcgtt cggaagagaa aggtcatttt aagtttcttg ggcgggcatt gaagggatcc 60

caggtgtgtg ccccctaaaa tcatatctgg gcatcgattt actgctatca gtcaacacca 120

gtccgctgtt cgggattatc tggaagcgta caagctggac tcggagaatc ctctaatcaa 180

tctctgcgtt ggttcgtcct tgatcaacct ctccctgggc ttcaggcttc agaacaagaa 240

ccagtgcatc gtccaggcgt ttgcgttcct ctacaagtgc ctgcgcatcg gcagcaacag 300

gcaggaggcc ctgtacaaca tagcccgggc ttaccaccat gtcgggctca aaaccctggc 360

ggccatctac tacgagaagg ttttagccat ggaggtggaa gatcacccca tacccaagct 420

tccattcgag gaggattttc atgagcacca ggctcttagg cctggctact 470

<210> 5495
<211> 224
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b04b1

<400> 5495

catttattat atctataacc aaaaaaaaaa aaaccaaggc ggggttaatt ttaaaaaaaa 60

aatggcggtc taaaaaccca ccatattaaa ctaaaaaacg attatgctct ttactcgccc 120

ccctttttta aggtcccaac attcctgccc ctcactgccc ccctcatccc tcttctttg 180

tgtcacctaa tttaaatcca ctgtccccca ttttacaccc cttt 224

<210> 5496
<211> 570
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b06b1

<400> 5496

cccattcttc gcccacccgt ccgaaacaaa aaaaggaggg ggctaattaa aaaaccccacg 60

ggggaacaac aaaaccaaac aacaaaccga agaaccaacc aagccagaaa aataaccccc 120

ccagcaaagc cccaaacccc aaaaggggggc ctaaacgggc cccccactaa aaactaccaa 180

aatccccccg ggcggcttcc cccccccaaac cccatggttt gggaacccca accccaaatc 240

ccccccccccc cctgaacaac cttaaaactg ggaaaacccc gcggtgcccc aaaaaaaaaac 300

cccttccaac aaaaccccccc cttaccaccg gggccaaata cccaaaaggc cccaaaaaaa 360

cccctcttca caaaattccg aaaaccaatt gggcaaagga aacccccccct aaaccgcgcc 420

caaacttcca aaactttggt cctttccccc ccccaccaaa cccccacaat tgccccgccc 480

ccaaccccccc cccctccctt caccccccccc ttaatccacc atccccccctt tccccccaaac 540

ctccaaaagg ggcccccccta ggcccccccaa 570

<210> 5497
<211> 519
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b07b1

<400> 5497

caccaaagct catcttcttc tccttgaaat ggttttgtgt tcatcagatt tggaggatgt 60

cttgcaactg tggatccggt tgcagctgcg gctcaaactg caagtgcggg aagatgtacc 120

ctgatctgac ggagcagggc agtgccgcgg tccaggtcgc cgccatggtc gtcctcggcg 180

tggcgcctga gaacaaggcg gggcagttct aggtggccga cggccagtcc ggctagggct 240

gcaactgctg cgacaactgc aagtgcaacc cctgcaactg ttaagctgca tgcactcgtg 300

tgatggtgtg agagtatacc ttaataacga gcgtgccttt gatctgatgg agtccagcaa 360

gggtgcatgt gcttgtgctt gtggttaact tgtcgctctc cactatgctc tgcccttggt 420

ggacttgtgt gaatgtgagt gcacctggcc ctgttattgc ttcatctatc ttcactatgg 480

atggagtgaa gaatattgta aaaatggatg aattaccta 519

<210> 5498
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b10b1

<400> 5498

tttgtcttta tggcggtcta agggtttaag ctcgtacttg gaataaaagt gaatcccacg 60

gctgcattcc tccctggtgg gtcacctgta aggtgaactt gagctttatg tacgtactgt 120

agtatattgt ttcatagtaa tgtgtttcag acacccgctc ggcttccagc gtttagtaaa 180

taacatttgt tgaggcattg cccaacgggt gctcatatta tttaccaaac ttggtatttc 240

taaatgttac ggccccgtga ctatgaaatg cgttgacaca aggcctaaac ttggaactgg 300

ccgttctttt acaacatttt tactgagag 329

<210> 5499
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b12b1

<400> 5499

ttttcattag gagcacgata gggggcgaca gcctgtggga gctgatttgg ctccatgtgg 60

gcaacatcta gacgggcctg cagtcggagg tcttcccgag ccaggagtat gagcccccga 120

gcaatgccgg tagcccgaga ggggggctga acgacgccga gattaagaac tagaaaaagc 180

tcatgggtcg gctcatccat tgagacgtaa gggtttgata ttgtaacccg catttcgccg 240

cctccattgt atgtatattt attctgtccg agttgctgtt gttgcgtaaa actgtggcag 300

caatgtgagc agattgacat gtttgcgctg ctgacctgag tggctgtgat gcacgtttca 360

tcatcagcac tggaaatgct gttgtttcca gaaag 395

<210> 5500
<211> 517

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077c01b1

<400> 5500

cgcttctcta ttttcctctc catctcactc actctgtgcc tgcgtcgttg gcgcagcgtt 60

ctccccgcga ctccgatggc cagcaagtgg gtcaggcccg aggtgtaccc gctgttcgcg 120

gcgacgggcg tggccatcgg catctgcgcc tttagccttc ttcgcaacat caccggcaac 180

ccagaagtca gggtcaacaa gatggggagg gcagcgggag tgcttgagaa ccatgaggag 240

ggcaggcgct acgccgagca cggcctcaga gcctatgtgc aggacaagac ccccgagatc 300

atgccaggaa tcaacaagtt tttcaccagc ccaaaatgaa gcactttagt ctgtctgtga 360

ctcgcaatta gtaactgttg tggtcaagtg caaacctatt tcaagcattc agtaatgttg 420

ttgcggtcat aattcagagg acatttgtca ataccttta tttgaagaac catgtgatgt 480

tcgacggctt gtttatatgt gatggttgat ggttttt 517

<210> 5501
<211> 535
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316077c08b1

<400> 5501

tttgtgtttg gaggtgacct tcgtggacga tctggaatgg ccgttcgagt tcttgcccgt 60

ggaaccaccc cggagcgcct ccatcatcga ggttcaccaa gatgaggtgt gggaggtacc 120

gcccggtggc aaggtgctgg cctactccga caagacgcgc gtggagatgt tcgccgtcgg 180

cgacaacgcc ctcggcatcc agggccaccc ggagtacacc aacgacatcc tgctcaacct 240

caccaaccgg ctcgtcaaca acagcaccat cgacgggtgc gtgggcgagg actcgcggag 300

gactgcggag agcggcgaac cggaccgcga gttctggagt gggctctgct aggccttcct 360

gaagggatca ggatgcgccg gcggtggcgg tcccaggccg ccgccgcagg gaccggccgc 420

ggagcttagc tgcagccacc acgtcgctca cttccctgcc accgtcttcc ttattggctt 480

gtagcgcttt gcaaatgcac ggaccngctg ttgttagttc ggcgcatgca tgtgc 535

<210> 5502
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077c09b1

<400> 5502

ttgcatttac cgaatccttg attgagcgat tgaaaaaggg tgctcaacct aaaaccaatg 60

cttcaacttt gaaccccaag ccagcgaccg tggaccaccc acggagaaga agcttgccgc 120

aataaggtcc ctgtgctttg gggggtattt atctagtttt gttgactgat tgatgagggc 180

aacaattcgg tttgtattga ttaaattttt tggtctgttg atttctagta cataatctac 240

acattgttgt attatgacgg aattgtttgt aagcagtttg tttgtataat ctgtccttta 300

cattgtctta caatct 316

<210> 5503
<211> 282
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d01b1

<400> 5503

cgtttatcta tgctactggg acaaaatgtt tgacggaggc ctgaagagaa ttcatgagaa 60

gtacacctgg acgctgcact catagaggct gatgaccctg accggtgtgt atggattctg 120

gaagtacgtg agcaacctat agaggcgtga gactagccga taccttgaga tgttctactc 180

cctgaagtac cgaagaactg ctgctgcagt ttcattggcg gttgaccgcc agaacttcga 240

caactagcct ggagcaatgg ggcatgaaga ggatcattta gc 282

<210> 5504
<211> 284
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d04b1

<400> 5504

gatgtgtttc agaataaaat cctttctgct agaatggcgg tgttaaaaaa aaattacggg 60

gaggcaaaaa aagactacac cgaaaccggc ctggccgtct acggcgacca ggcggccggc 120

ctctatgctc tccagctcaa ctctttgtct agcctgccga tgactctcaa gaacgccctc 180

ttgcttgccc tcctggagac cgtggtggcc ctcggtggca cgcttttaac ccctgcccag 240

gtggcccccc tgctcccgtt cacggtttac cccaccgggg cgga 284

<210> 5505
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d05b1

<400> 5505

gcctcgctgt tcgtaacaaa aaacatgaga aacaaatgga gagagttaca acaaaaaggc 60

tgatggttct acccagatga gaaccaagcc ggacggctgg cgtgagcatg ggcgctttcc 120

gcctatgtca ataccctgac aactgggggg cgccttttta agggacccct cttacccacc 180

ccgtgcttcc acggcattat ccttttttgtg gggctcccga agtacaatgc atagccggcg 240

tttcacacgg cagagatggg aaaaaccctg gcttacacca ggtcaatgcc ttgcactgga 300

ctcccctttt caccggtcgg gattatagaa atggggcccg acccaatccc ctttcccaac 360

aggg 364

<210> 5506
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d08b1

<400> 5506

tctgttttgt cacccgacgc atgagatcac catgattaag ttaattccga tgatgcggtt 60

cgttgatccc gatgtgatag agtacgtcca acacagactt taacatggct ccctggggcc 120

atagtgtaca ctgcgaagga gatgatgact aaagatgaaa tgaactgtcc gccaccgttc 180

gcagggtgaa caaatgaact gagatgttat cttgaacggg gacgaaagaa gaaactgttg 240

ctacacgatg gcaaaactta aa 262

<210> 5507

<211> 99
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d09b1

<400> 5507

tttgattagt atagagcgcg agcggccacc agggtgcggt taaaaccaaa aatgggcgtcg 60

cgcgcccccg aggagatcaa gaccgtacaa cgggaccaa 99

<210> 5508
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d10b1

<400> 5508

ttttgttttc ctgcttgccg ctctcgctcc gcaggcgccg tcgacgtcgc cgccgccacg 60

gccagagctc gactcgctcc ctagaggtaa ggatggtgag agtcagtgtg ctgaacgatg 120

ctctcaagag catgtacaac gctgagaagc gtgggaagag gcaggtcatg atcaggcctt 180

cttccaaggt cattatcaag ttccttatcg tcatgcagaa gcatggatac attggcgagt 240

ttgagtatgt tgatgatcac aggtctggca agatcgtggt tgaattgaat ggcaggctga 300

acaagtgtgg tgtcatcagt cctcgctttg atgttggtgt caaggagatt gagggatgga 360

ctgcaagg 368

<210> 5509
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d11b1

<400> 5509

ttggctttct accaccagac cgaccgcaca gttgaagtga gatctgcgct aagggttcat 60

cagcaaccat gaagagcacc aagctcgcgg cgatcctgat cctccaggcc gtcctggtca 120

tggggatcct ctcacacgtg aacgccgact atttccccaa gtgctgcaac aactgcaggt 180

ccttctcggg ggtcgacgtc tgcgacgacg cccacccccа gtgccccaag ggctgctcgg 240

cctgccgcgt ggtgacgccg agccctcaca agacgttccg gtgcgccgac atgaagagca 300

ccgtcgatgg cacctgcggc gggccatgca agaagcactg atccgttcag ggcttcaggc 360

tcagacgagg tgtgccgtct aaaataaagc tcagatgaga tgagcagtca tggtgcctat 420

gcttgtgtgt gggtcgtgct atacggccaa caaatatgat actgctatcg acgtgtcttg 480

gtcaatgtg 489

<210> 5510
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d12b1

<400> 5510

ttcttttcat ggcatcttcc aagagtagtc ttgcaagggt tgcactggcc atagtcaggg 60

gcgtggtggc tgacatctcg gcgcagaaca ccccgcagga ctttggcaac ctgcacaacc 120

gcgcccgcgc cgtggacggc gtcggccccg gggcatggga caacaacgtg gccaggtttg 180

cgcaggactg ggcggcgcaa cgcgccggcg attgccggct gcagcactcc ggcgggccgt 240

tcggcgagaa catcttctgg ggttcctggc agtcgtggac ggccgccgac tccgtgaagc 300

tgtgggtgga cgagaagcag aactaccatc ttgacagcaa cacctgcgac tcctgcaagg 360

ggtgcgggca ctaca 375

<210> 5511
<211> 482
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316077e06b1

<400> 5511

ctcttctttt ggaggagatt tttaagatac tgctacctgg ggaaccttta atattgtgcg 60

ggggttctgg ggactggata agaagctggc tcaaagaaag catctcccat ctgttaattg 120

attcattttt tactcaaaat actccacgga cttggaagga tactatgaaa agattgatcc 180

tggctttatc gacatgagaa caaaagctcg tgaagtgttg cagagagagg atgacctaaa 240

cgaaattgtc acagcttgtt ggtaaagatg cactgcgaga atctgacaag attactttgg 300

agacagccaa gcttctgagg caagattatt tggcacacaa tgcttgtacc caatatgaca 360

agtattgtcc attctacaaa tctgcctgga tgatgcgcaa cattatacat tcaaatacat 420

cngcgaatca agccgtggag cgagcatcca atgctgatgg acacactaaa cctacgccgt 480

cc 482

<210> 5512
<211> 528
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077e08b1

<400> 5512

gctgcgcggt ggtgatgagc ctcatcgcgg tggcgctggc tgtgctcctc tgctccgccc 60

gcagggaggg aggccgcgag gacgaggagg cggtcccggc cgggatgatg tctgtgcgcg 120

tgctgacgcc gttggacagg gaggtgccca aggtggtggt ggtgatggcc ggcgacgaca 180

tgccgtcctt cctcgccagc gccacgccgc tcgccttcgc cgaggcggcc aaggtgcagc 240

gcccgtactg ccagtgcggc gccaaggacg tcgccgaccc cgtatagcta actgtggctc 300

tctcgccgcc gatcgacacc caagtatata tgtgtcggtt aaatcaaacg gggggagcta 360

aattgtgctt cttttatgta gattattaca ctagtttaca tcatttttct ccctagttag 420

tagttttggt gcaacgatgc gaatgcggtg ctggggcctt gtccaggagg cttgttgtct 480

gagctccaag catgtacgag tgcgcaatta tatgctaatt ggttgcat 528

<210> 5513
<211> 532
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316077e09b1

<400> 5513

ggtttttgcc aacaggtaac gatggtgtcc ggctccggtg tgtccgcgcg tcgcgtggtg 60

gtggatgcgc gccaccacat gctgggtcgc cttgcgtcga tcgtggccaa ggagctgctc 120

aacgggcagc gcgtagtggt tgtccggtgc gaggagatgt gcatctccgg cggactggtc 180

cgtcagaaga tgaagtacct ccgcttcctc cgcaagcgga tgaacaccaa gccctcgcac 240

ggccccatcc acttccgcgc cccctcgcgc attttctggc gcaccgtgcg cggcatgatc 300

ccgcacaaga cgccccgcgg cgaggccgcg ctcgccaggc tcaaggcttt cgagggcgtt 360

ccgccgtctt acgatcgcac caagcgtatg gtcatccccg acgcgctcaa ggttctgagg 420

ctgcagccgg ngcacaggtt ctgtctgctc ggcgagcttt ccaggaggtc ggatggaact 480

accatgaaac tatcagggac tggaggagac gaggaaggag aaggccaagc tg 532

<210> 5514
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077e10b1

<400> 5514

tctagtttgg tgaggccgaa gatgacgtgg tcggccttgc tccatatctt cgtgctggca 60

ctgctcgggc ctgtgattga ccagaacttc tactatgtgg gtctcaagta caccggcccg 120

accttcgcat gcgccatgag caacatcctt cccgccatga ccttcgtgat ggccttcatc 180

ttcaggatgg agaaggtgga cctgagaaat ttgcggtgcc aggcgaaggt ggcggggacg 240

gtggtgacgg tggccggcgc gatgctgatg acgctctaca aaggcccgct gatgcggatg 300

gcgtggacga gccacggaca ggcccacggc ggcgaggccc cggccgtcga tcccacgggc 360

agggagtggt tcctcggctc gctctttatc atcatcgcca ccctcgcctg ggcctcgctc 420

ttcatccttc aggctcacac cctgaagcag tac 453

<210> 5515
<211> 335
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077e12b1

<400> 5515

ttgtctttgc ctcgcaccaa aacacaacta ccaccagggg cagctgttcg actccgggga 60

ggcagagatg ggctccaccg caaccgacat ggccgcctcc gccgacgagg aggcgtgcat 120

gtatgctctc cagctcgtct cgtcgtcgat cctcccgatg acgctcaaga acgccatcga 180

gctgggcctc ctggagaccc tggtggccgc cggcggcaag ctgctgaccc ccgccgaggt 240

ggccggcaag ctcccgtcca cggcgaaccc cgccgcggcg gacatggtgg accgcatgct 300

cccgctgctg gcctcgtaca acgtggtgtt ctgca 335

<210> 5516
<211> 559
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077f04b1

<400> 5516

ctctgtcttc gcctccggca tcggcacggt gtcccaaggc gagctgatca ccgtgagatc 60

cagagccgcc gccgccgccg catctgctag cgcctcactc ccttccggcc tcccttcccg 120

ctgcaaagat ggggaggata ccgtctctga agaacttcaa tgcgtttccg cacgccgaag 180

accacctgct gaagaagact tactcgggtg ctatagtgac gattctcggg ctaattgtta 240

tggttacact tttcgcgcat gagctcacgt tttaccttac aacctatacg atgcatcaga 300

tgtctgtaga tctgaaacga ggagaaactc taccaattca tataaatgta tcatttccat 360

ctttaccatg tgaagtcttg agtgtggatg caatcgacat gtccggcaaa catgaggttg 420

acttgcatac aaatatctgg aagctccgtt tggataagta tggccacatc attggtactg 480

agtacttgtc tgatcttggt gaaaaggagc atggaactca tgatcatgac catggtcatg 540

agcatgatgt agaaaagaa 559

<210> 5517
<211> 566
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077f10b1

<400> 5517

tttcttttcg tccgtgaaga gatgcatcgt tcctagcatc ctgctgatgt tttcactgga 60

ggcagcgctc ctcgtcgccg gtcgcacctc cgccgccgac gaagtgggcg ccattctcct 120

gccgagccaa ggccaagagg aagcagccat ggcggcggcc aagaagaggc cgtggaagtg 180

ctgtgaccag gcggtgtgca ccaggtccat cccgccgatc tgcagctgca tggaccaggt 240

cttcgactgc ccctccacct gcaagtcctg cgggccgtcc atggctgacc cgtcccgcca 300

cgtctgccaa gaccggtacg tcggcgaccc cgggcccatc tgcaggccgt gggagtgctg 360

cgactcgcct acctgcacca ggtccaaccc gccgacgtgc cgctgcgggg acgaggtcga 420

caagtgtggt ccgacctgca agacctgcct gccgtccagg tcccgaccct cccgacgcgt 480

ctgcatcgac agctactttg ggcccttccc gcccgatgca cgccgtcaga gctgttgccg 540

acgcggtagc tagcatgcgc agcaca 566

<210> 5518
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077f11b1

<400> 5518

tctgtatgaa caggcggagg ggaggggagg ggaggaggac ttgagatagg acctcgttcc 60

ccgtcgcgcc gactagttcg tgtttccgaa cgatcgcccg gctatcgccc tagaaatgga 120

tcaagagagt tggaaagagg caatggatac ggatgaacac actccccagg ttccgataat 180

gtgcataaac aactgcggct atttcaggaa cccgatgaca gaaaacatgc gctcaatgtg 240

ttaccgagac actgtctagg acaagagcat ggccctgcta gatgagaaca caactggcgc 300

tgctgcagca tcgtgaccca caccaatggt ggcagacatc aaggatgaag cgtgtgc 357

<210> 5519
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077g03b1

<400> 5519

gcctttcgtt tcggtaaaca gagagctctt cgtgaatgat gtcgaggaag aggaagaaga 60

agaagtgtgg agcacgctgc tgctacctgg tcacgctctc agcacagtga atttccagac 120

gcatgcttgc cgtgccttct tccgggtgca ccggaggccg gtatgggagc aggggcgctc 180

cagtgatgca gaagaaaaaa ggcaagtctt attggcaggg gaaggctacg accttttcttc 240

caggtctccc tctcttcatc taaatccgtg tttggaggag ggggctactg ttagcttacc 300

caccggttta ccgtgtcctt gtgagttgag gttatcatgc actcagcagt tgcttgtcat 360

gtatggtgtc cttgaatcag cagctacata atggtcgggt gcgtcaccga atgggagtgt 420

gatcatgtga gtcaattagc t 441

<210> 5520
<211> 537
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316077g05b1

<400> 5520

gccttctgtg gtttccgccg cgatctcgtc tcgatccgca ctctctatct gagatttgga 60

atcgggcgag gcctgcagct cctgccgaca tggcgctcgt tttgcattcg ggcagtggca 120

acaagaatgc cttcaaggca cttattgctg cagagtactg tggggtcaag gttgagctga 180

ccaagaactt tgagatgggt gtctcaaaca aaacccctga attcatcaag atgaatcccc 240

ttggcaaggt tcctgttctt gagactcctg atggtgctgt ttttgagagc aatgctattg 300

cacgctatgt tgctcgctca aagggtgaca acctgctttg gggtggttct cttattgaat 360

atgcgcgtgt tgagcaatgg atggactttg gtgccacaga ggttgatccc aatatcgcaa 420

ggtggctgta cccaaagctt ggttatatgc cttacaatgc ccagtctgag gaactcngca 480

ttgcttgatt gaaagggccc ttgagcattg acacacacct gcatcaacac attcctt 537

<210> 5521
<211> 549
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077g08b1

<400> 5521

tgttgtgacc tctgccaggc cgccgccgac gccgtgctgc gcggtgactc cctgcgctcg 60

ctctccgccg tgcccgccgc cttcacggaa cgcgacatgg ccggcctcta cggcaacgtc 120

ggcacaaaca ccggcagctc ctcctccctc cactcctcgc cggagaactc cacgtccgcg 180

cccgccagga agcggagcaa gaacaaccct ggctgcggcg ccgcaggagg gcagcaggtg 240

aagctgccgg ggccggtgct gccgtcgtgc gatctggacc tctgcctgac gcccttgtcg 300

tcgccgctgg ccggcgggag gcgaggcggc gcgtcagacg agtactccac cacgacgtgc 360

tgcgaggacg ccagcggcga cgcggcggag gccggggcgc ccccgctgct gaacctcttc 420

aactgagaac ctgagtgtaa actgtaattg tgcagttcgt gtgtgtgtgt gtgggtggtg 480

attaattatg ttgcatcggc gttagtcaat gacgtttttg ggaccggcaa aaaaaaaaaa 540

aaggtgggc 549

<210> 5522
<211> 514
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077h04b1

<400> 5522

cgttttctgt tggcggacgc gtgggcggac gcatgggggg caatggtgtg agaacatctg 60

gagaaggggt tagtcctatg gcacaagagc ttgtagaacc tgcacctgac aatgtccata 120

ttgacgcggt tttcattaca gaagttagtg gctccatgtc ccagtctgat ttccactcct 180

cgctgatggc atctgaaagg atcgtgcctg gcttggaaga cggcgaggca gctctccgca 240

ggacttcatc cagagatgtt ttgtcaagtg aaagatcaga tgtttctcaa tccagcttaa 300

catctgtgtt gcctgctact tcaagtgcat catccatcat tggagaatca attccagatg 360

caactgctag cagagaagat gttccaacca tattcagcgt gtcacatggt cagattggtg 420

gaagtacagt gcatgaagac atggttagca ttttctcaaa tgatggccca gaacactcta 480

gagattcgag taatggtgaa acaagaagaa atca 514

<210> 5523
<211> 553
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077h05b1

<400> 5523

gagaactttt tcctccactg cccagaccac cattggggtt gactcgatgt ttgagggcgt 60

ggacttctac tccaccatca cccgtgccag gtttgaggag atgaacatgg atctgttcag 120

gaagtgtatg gagcctgtgg agaagtgttt gagggacgca aagatggaca agagcaccgg 180

gcacgatgtt gtccttgttg gtggttccac taggattccc agagtgcagc agcttctcca 240

ggacttcttc aacggcaagg agctctgcaa gagcatcaac cctgatgagg ctgttgccta 300

cggagccgtc gtccaggctg ccatcttgag cggagagggc aactagaagg ttcaggacct 360

gctgctgctg gatgtcactc ctctctctct tggtctggag acggacgggg gtgtgatgac 420

agtgttgatc ccaaggaaca ccaccatcct caccaagaag gagcaggtct ttttcaccta 480

ctcggacacc agcctggtgt gctcatccag gtgtacgagg gtgagaggac caggacccgt 540

gacaacaatc ttc 553

<210> 5524
<211> 104
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077h06b1

<400> 5524

gtaagtaaca ctcatgctgt aggctgacac ggatcagtta gtgtccgaac gactggcatg 60

atgatggccg ttcggtgcca ttgttggtgt ctcgaggagt ccat 104

<210> 5525
<211> 244
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077h07b1

<400> 5525

ttttcatccg gcataaaaac cattctaggt atagggaggg ttgttattaa aagtggatga 60

ggttgcctca aaagaaaaga gaacatggaa gaacaagtat cccaattcca gccaaagtcc 120

agtacatctt tggatggcca tcatgaaaaa aggtctttaa aaaaaaaaac actaaccttt 180

cttgtttatc aaaaaaaaaa aaaaaaaaaa actacaaaaa acataaaaaa aaacaaaaac 240

taag 244

<210> 5526
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077h11b1

<400> 5526

ttgtttggct ttcttctcgg cggaggcgga ggcgacagga aggcgaacga cgaaccctag 60

ccgcgcaagg aacgcccaga tccccaaggc cggccacgat ggcggcggtt cggtgcgcgg 120

cgaggaggct cggtggctcc ctgctccagc aaacgcaggc ggtggtcgcg gaggagggac 180

gcctgctcgc gccaggcagg ctcatgcgct cccgccagct ctccagccag gtctccggcg 240

agcgatcaca ggtggcggag cgacgactcc tcgagccagg ctggctcatg cgttcccgcc 300

agctctacag caagaccccc aagaagaaga agctgtctgc cttggaatct gagttcctgt 360

ggacacagga gacgcttaat gcctcgtgtg ataggttgga ggagcttcaa aagaaagcag 420

caccagatgc ctttaagttg ggcgtgaaga cctatggacg tgtggctaag ggtgtggtca 480

gtggagct 488

<210> 5527
<211> 96
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a01b1

<400> 5527

tagtaacgct cgtcaagcgc aactggttcg tccgtcgtcg cgtaccgaat cttcaccacc 60

cctgcgcggg gtgaggtgtg gagatgatgg ggggag 96

<210> 5528
<211> 98
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a02b1

<400> 5528

ccctgatagt ctagtctcgc cgaggagtga gggaggggg gctttattgc tagcttaggg 60

gtcggcgtgc cccgagagga gtggagatga tgggggga 98

<210> 5529
<211> 367

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a07b1

<400> 5529

gtgtagccag tcttgccgag gagcgaggga ggggttgctt gattgcttgc ttcggggtcg 60

gtgtgcgggg tgaggtgtgt agatgatggg ggcaggctca cacatcaaga caataaatag 120

agcctgtctg tttggggcca atcaaaccaa acaacaagtt catgtctgat ctcgacgtcc 180

aggttccaac tgcttttgat ccgttttctg aggcaaatgc tgaagactcc ggccctggtg 240

ctggatcaaa gaactatgtg catgttcgtg tccagcagcg caacggaaga aagagtctga 300

caactgttca aggcttgaag aaagactacc gctataacaa gattctcaag gatctcaaaa 360

aggaatt 367

<210> 5530
<211> 234
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a08b1

<400> 5530

ttttgtgccg gctcaagacc gagtctagct gggggtggtt tgtattttgc ccgggggtgg 60

ttaataaacc gaacaaacct agggtgggtc tttttttga gcactcgttt atatgcggcg 120

cattcctcct gagagggtgt tcttgatata cctttctgtg aacaacaaat ggggcagttc 180

tcctgtaagc gttcaggaaa aaacctgggg atacccaaaa taaaaaactt aggg 234

<210> 5531
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b01b1

<400> 5531

tcctcgcgtc cgcggacgcg tgggccgcga gcaaaaaatc tgtcctccga tcgcgccata 60

gctcgccgcc tactgctcct ccttgtctgc gagcgaacga gcgtagcacg gtagggagta 120

gctccgggga ctgttggcct ggtccaagaa aaatccaagc acagagcaga ggagcataca 180

gcctcgagga aggaaagaaa cagagcggct ttgctgtttg ggaggtggcc ggcgagagag 240

atggggcagc tcaggccggc ggcgggaggc ggcggggact gcctgatcaa gctgttcggg 300

aagaccatcc ccgtgccgga cgccggcgcc ggcgccaacg cgggagacgt cgacaaggac 360

cttcagcaca gaggcggcag caccaccgct gaactaaagg tgcaagaa 408

<210> 5532
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b02b1

<400> 5532

gttttagctg gcctcctggt cgctctaccg cgccgtcatc gccgagttca tcgccacgct 60

gctcttcctc tacatcaccg tggccaccgt catcgggtac aagcaccaga cggaccggc 120

ggtgaacagc gccgccgacg cagcgtgcgg cggcgtgggc gtgctcggca tcgcctgggc 180

cttcggcggc atgatcttcg tcctcgtcta ctgcaccgac ggcatctccg ggggccacat 240

caacccggcc gtcaccttcg gtctcttact ggcgcgcaag gtgtccctgg ttcgccgct 300

gctctacatg attgcgcagt gcctcggcgc catgtgccgg gtcggccttg ttaaggccct 360

tcagagcgcc tac 373

<210> 5533
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b04b1

<400> 5533

cctttgtttc cgcccacgcg tccgtctacg gtgtggagcc tactgtgagt gctgtcttaa 60

atggtggaaa gcctggacca cacaagatcc aaggaattgg agctggtttt atccctggtg 120

tcttggatgt tgacatcatt gatgaaacca tacaggtttc aagtgatgag tccattgaga 180

tggcaaagtc tctggcattg aaagaaggat tgctggttgg aatctcttct ggtgctgctg 240

cagcagctgc aatcaaggtt gctcagaggc ctgaaaatgc agggaaactc tttgttgttg 300

tattcccaag cttcggagag cgcttccttt cgtggtgctc ttccactcca tcaagaagga 360

ggccgaga 368

<210> 5534
<211> 107
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b05b1

<400> 5534

tcaagtacgc gagcggcgac ccgtacgata taacagggcg cgatcaatca caaaccaccc 60

cccagaattc acccagatac gcatacaccc gcccggctaa taacaaa 107

<210> 5535
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b06b1

<400> 5535

cattttctcc cctgtggagg cgtcctcatc taccagagct ttaccgtgaa cgaagaggtt 60

gctgtctctg ccgggtcgcc caggtccgtc ttccactgct tcgaggccga gagtgtgcac 120

agccaccctc tggtcaagga aggcaagctc gccaacctcc tcgcatggcg ggcggggagg 180

attctctgga agagggcgcg gtgctgtgcg agtgaagaca tgatttgctg tcgctattcc 240

atctgtggaa tttgttctga ctgtcagttt gtcgtttggt tactgtgaag cagccggcca 300

ggctattgct ctctgaataa actattagct ctaggtggtt tgctgcgtct gccacaatga 360

gcgtacttct ggggaaaagc tgcctcgaac ttataaataa gcattatttt ttct 414

<210> 5536
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b08b1

<400> 5536

cgctcctctc aagggagagg agagctcgga aagcatcgcc agcgccgcag ccccccgcga 60

atccgcgccc ggatctcccg gcccggcggc gatggcgctc tccgacctct cccgcgactc 120

gctcctcccc agcttcctct actccccgcg ctccttcgcc gccgccgcct ccccgcgctt 180

cccctcctcc ccgtcgccct accaggcgcc cgcctcgccc gccgcggccc cggctgctgg 240

cctcgtcggc gctggcgggg tcgggggcgg caggcccttc ttgatccgcg cgcccaacga 300

gaagatagag atgtactctc ccgccttcta cgccgcctgc accgtcgggg gggatcgcca 360

gctgcgggct cacccacatg gcccgtcacc ccggtcgacc ctcgtaagtg ccacatgcag 420

attgaccccg cgaaatacaa gagcatctca tctggatttg 460

<210> 5537
<211> 538
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316078b09b1

<400> 5537

ggttctttgg gaagattccc aagcttctgc tccataggct atttccaaat gtaagatttt 60

cagtttggat agacgcaaag cttcagcttg ttgtggatcc ttatttactg cttgagaggt 120

ttctgtggag aaagaattct agttttgcga tatctcggca ctacagacgt tttgatgtgt 180

atgaagaagc agaagctaat aaagctgctg gaaagtatga caatgcatca atcgatgaac 240

aaatagattt ctacagaaat gagggcctaa cacattattc tcccgccaag cttcctatca 300

caagtgacgt cccggaaggc tgtgtgatca tcagagaaca cgttcccatc tcgaacctct 360

tcacatgtct ttggttcaat gaagttgagc gcttcaccgt cagggatcaa atcagcttca 420

gcaccgttcg ggacaaaata agggctaaag tcggctggat gccccaaatg ttcctggact 480

gcgaaaggcg caactttgtt ngtcaggcat accacangga gctgctagag caaatgat 538

<210> 5538
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b10b1

<400> 5538

tgttttgccg ccggcgccgg cgggttcagg cgcggctact gcctcaagcg cgggcgcgcc 60

gaccaggagc ggaagaaggg cgtcccgtgg acggaggagg agcaccggct gttcttgaag 120

gggctgaaga agtacgggag aggcgactgg aggaacatct cgcggaacta cgtgacgagc 180

cgcacgccga cgcaggtggc cagccacgcc cagaagtact tcatccggct cacctccggc 240

ggcaaggaca acaagcgccg ctccagcatc cacgacatca ccaccgtcaa cgtgccgac 300

gacgacgacc gcggcagccc ctcggggtcc ccgccgtccg cgctcaccac cgtcgacacg 360

aagccttggc cgtcgtacgg cgggcaacgg cacgccttca tgccgccgac gctgccagcg 420

g 421

<210> 5539
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078c02b1

<400> 5539

ttctcgcgtt cgcccacgcg tccggaagta ctacaaatca agggtcgaca ggggagtgat 60

caagcagagc gaccttggcc tgtatgtgtt tgcgtcgaag ccgtcgagcg gcgcagccat 120

actgaggctg tagatcgacc accgccggcc gtggtcggtc gcttgtacat gcacaccatac 180

ctattgctcg aataaacgcg tgctcgaggc gagcacgctg ccattagcta atttagtgcc 240

cgcgtgtctg aatgtacaat actagtacaa tgtgtagtat ttatctctgt ttattatggg 300

cgatctgact gccaggttat ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360

aaaaaaaaaa aacacg 376

<210> 5540
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078c06b1

<400> 5540

atgtctttct ccccgccgct tcttctcccg cccgccgccg ccgtctccgc ctccgccccc 60

gccagtctcc tggttgattc cggcgccttg aaccaagatg tatctccagt actacatcaa 120

cgagaagggc gtcaaggtgt acaccaccaa gaaggaatcc cctctcggtg tgccgacgca 180

gtctgcccac ccagctcgtt tttccccgga tgacaagtac gcccgtcagc gttacctgtt 240

gaagaagagg tttggattgc tgccaaccca acagccagca caaaagtact gaagcactgg 300

atgggtcctc ctaagagatc tgttttcttt gctgaatgct gtttggagtg tagattagct 360

ttgtgaagag agaatta 377

<210> 5541
<211> 469
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316078d03b1

<400> 5541

tcttcgcgtc cgcaaattct aatacaaact atgttcatcg tgagatagtc gatctacgtg 60

atggctctga gtttgtgatt aaagtgcctt attgctacaa ctctatgtac atggatactg 120

accaagctca aaatgattta ttcatgatga tgcaggtcaa tgtattaaat gaattggtag 180

ctccagacac ttgcgcacaa agcgtagaaa ttttgtatga ggttaggggt ggagtagaca 240

tggaatttca agttccagtt cctttcaatg ttctaccagt tcaacagata gttcctcaga 300

gtggtggaga aggccaagct gagttagttc ttgattcttg tattggtagt tccactgtgc 360

atgacccgtc taagatgtct gctgagctat gcattggtga atcttgcact tctatgttac 420

agttgatgaa gaggtatctn cgattgcaac aactaatgca tcatggact 469

<210> 5542
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d04b1

<400> 5542

ttttttgcgt ccggggaatc tcagctgatg acatggaagc agtttacaag aaggttcatg 60

ctgccatccg tgctgatccc accatggcca aatcaaccaa ggcgcctccc aagactcaca 120

agagatacaa ccccaagaag ctgacctatg agcagaggaa ggccagcctc gttgaaaggc 180

tcaacgccct caacaactct gcgggtgccg ccgatgacga tgaggacgac gacgactgaa 240

gagctctttg tccaccccag tgtagtcttg caacgtgcgt ttttgttaaa gtccggcact 300

ctgcacaatg acctgttcca ttgagttctg tttgtcctgc tggagttata gattgtgtta 360

tctgggttat gtgccgtgct ggcatttgga tctt 394

<210> 5543
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d05b1

<400> 5543

tttttatccc acccgtctcc acccagataa ccacgagaga tatttcgtcc gccccgacga 60

ccgacgaacg gcagagaaaa gtgaggtgat catgagcacc atggcgatgt cggcgctgaa 120

cccggacgcg cccatgttca tcccggcggc gttcaagaag gtggaggact actcgcccga 180

gtggtgggag ctggtcaaga ccaccgcctg gttccgcgac cactggttcc gccagcacca 240

gctctacgag gacctcgccg acgacgtcga cgtggacgac gttgtcgc 288

<210> 5544
<211> 94
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d06b1

<400> 5544

cccatgcgtc cgctgggtgt gcatcttcta tcatgttgct aaagatggtt tgtatgtcat 60

caatctatta tatgttgtta aaaattatct tgtt 94

<210> 5545
<211> 72
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d08b1

<400> 5545

cctacttgtc cgccaaaaaa aaaaatacaa aactatgagg atagatgtga aagacaaaat 60

acatgaaggc tc 72

<210> 5546
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d10b1

<400> 5546

ccttgttata gagaagaaca cgcctcttcc tcccaaccac aactacctcc atctcggcat 60

ggtgagcccg tgactctctg tctaccatga ttttttcctc ctcgaaaccc ccgtgcgctc 120

tctggttcgc aggttcctcg tcgatcggcg ggctgggctt gcggcgatct tggagcgaga 180

cgcgaggcgg ctgcatcttc cgatctgccc gtccggcgac tcagatctgt tacctatctg 240

atggcccgcg gcggatctgg gggttcccgg cggtctagag ttgactctgc ggcgatgaag 300

gctttttctc cgacgtgcac gtgtggattc ccggctttcc tgcttcgcgc gacgacggct 360

tttgtattga taattatccg atgatatttc gataattatt agatctaaaa gatcaaaggt 420

aagagcgtg 429

<210> 5547
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d11b1

<400> 5547

tttttacaga ctatatttca gacgatggga ctgcaatgcc tctctattca catagataac 60

acacatgagt tctctgcagc acctgtgatt gcatggctaa tgtataccag ggagacgctc 120

cggtgcctgt attacaacat ccaaaccaac cctaatgtaa acatcctgga gaagtgtggg 180

agacagaagc tggaggtgtt ggatttggac cataacacaa tcaccggtgt tgaaccaagc 240

taccagaggt tcacttgtct taaatccctt tatttgaggc atgtgagcat ttctgccctg 300

gatttgagcc ttctagttgc tgcttgcccc aagatcgagt cactagcact tgatgtccct 360

gagattgtca cttctgattg gcagtctac 389

<210> 5548
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e04b1

<400> 5548

ttgttatcac agccagcata cggtgatcag tcagctgaaa acattgcaaa ctatggttat 60

cagggagccc cagctgatcc caactatgga aatgcctacc cacagtcagg atatgctgct 120

gcaccgacaa ctggtcagcc tggatatggt caggcaggat acactcagcc accagctaca 180

aacccaccaa gttatgatca gtctgcgcca ccagcagctc aaagtggcta tgctgcacct 240

gctgcaaacc cacagcctgc ggttgcaaag ggcgtgtcac ctcagcctgc tgctgctgct 300

ggatacggcg ggcagtggac tgcctgactt ctgttccaaa gccctgctga cagcaagata 360

tatttgaaag ctatatatgt tttgtcacct gctgctttaa atctttgcg 409

<210> 5549
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e05b1

<400> 5549

tttgtacgca accttcgaga atgcagagcg ctggctgaag gaactgaggg accatacgga 60

tccgaacata gttgtcatgc ttgttggcaa caagtctgat ctccgccatc tcgtgcccgt 120

cccaaccgac gaagggaagg cctttgcaga gagggagtca ctctatttca tggagacctc 180

tgcgctcgag tcgaccaatg ttgaggacgc ttttgcggag gtcttgaaac agatttaccg 240

catcgtgagc aagagggcgg tcgaggcggg tgaagactcg gccgctggcc ctggcaaggg 300

tgagaagatc aacatgaagg acgatgtctc ggcggtgaag aaaggcgggt gctgctctag 360

ctgaggcgcc atgctgtatt ttttggtgct gag 393

<210> 5550
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e06b1

<400> 5550

gctcgcgccc gcccgatccc ggatccccga tccccccctg tgcgatggcg gccagcctgt 60

ggcgcgcggt gatgggctcc tcctcctccc cctcgtcggg cggcggcgac gaccccgcgg 120

cgggcggcgt ggagttctgg cacggcgcgg agcgcgccgg gtggctgacc aagcacggcg 180

agtacatcaa gacgtggcgg cggcgctggt tcgtgctcaa gcagggccgg ctcttctggt 240

tcaaggacgc cgtcgtcacg cgcggctccg tgccccgcgg gatcatcccc gtctcctcct 300

g 301

<210> 5551
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e07b1

<400> 5551

gcttattatg aactgcccaa gtatgttttg tgtgagccaa ccaacctggt ccaagacagt 60

tgaagggcag ctgcactatg atccattcat gtaaaaaact gtaaatcgct tcagatgcta 120

aaaacaatgc cttgctcaag tgtcctggtg acaggagcat ggttgattaa tgatttcaag 180

catgcttctg gtaactgtca gcttacagtt tccccccctat cgttagcata caatgttctc 240

ttctatctca gactgtcttc cgacgattta gataaaagtt gttcatagca tcccctaa 298

<210> 5552
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e08b1

<400> 5552

gattgatcta atccaccaag agggcatcgc gttcaaccct gattaccagt aggtggtgtt 60

cctttgatcg gcttcattca tatggaaagt tttcggtcct cctgccgcca taaaatgtcg 120

ctagctgtaa ataattgcct cacccagaga atcaaaagga gatggcgtgt taagggtaga 180

tgacaagagc tgtggtggtc aaatttccgt gtagcctatg gattcttgtg cttgtgtatg 240

ttgttttatg tggatttttt ccccttctgc ttgaagatgt ttcagcattt tccgtaagat 300

gcgatagtcc ctgaacgatg gctgcctaat ttctgtggcc cgccatgaga ttttttacatt 360

gtgggtggat atggattatt gaaatggtgg ccctggttaa tgaacctcca ctgactgatt 420

ggaatat 427

<210> 5553
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e11b1

<400> 5553

ccttcgtttc cgctcaattg tgcaggtcaa agttcagtgg tcttcgttag ctcctgaatc 60

cccgacctgg gaggattatt ctgtgctccg tcagcgctac ccggaggcaa gctgttggga 120

tgaagacgct cgcgctcaag gggaggcaaa tgtcacacct gatacatgag tatcggtgga 180

cctggaaggt gaaatagata gaaaggggtg agcgtgtgtg tgcccagtgg gccacatgtg 240

gccaggcgtg tgtgtgcaag tataagagac ctaccctgta ctccgtgggg gatatgaaat 300

aagaaaagtc ttgttgccct c 321

<210> 5554
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e12b1

<400> 5554

ctatcttcgc cgtccggtcc accccgagag gagagcgcag cgacatgccg gcgacgccga 60

ccatcatcgg tgccctgctg gggctgggca cccagatgta ctccaacgcc ctccggaagc 120

tcccctacat gcgccatccc tgggagcatg tgctgggaat gggtctgggc gttgtgtttg 180

taaaccaact ggtgaagttt gatgagaagg tcaaggtgga ccttgacaag atgcttgagc 240

gtgcgaaaca cgccaatgag cagcgctact ttgacgaaga cgacgattag ctattcaaat 300

ttgttggcgg ctaccagggt ttt 323

<210> 5555
<211> 254
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f02b1

<400> 5555

gtgtattcca attcgttgta gctagcagtg acattgaaca ctgggtgggt tagtaagaat 60

aatgtatcat gctatgtttt ccagctgtag aaatctgcta ccagtgtaga ctgacaattg 120

tcaaaatact tcttagtcta gttcagagca ataaattttt tgtaaatttt aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa aattaaaaaa aaaaaatcaa 240

ataaaaaaga aaaa 254

<210> 5556
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f03b1

<400> 5556

ttctacttca cctctgagtc tgtgaacgag ggccaccctg tacaagctct gcgaccaggt 60

ctctgacgct gtgcttgacg cgtgcctcgc ccaagacgct gacagcaagg ttgcctgtga 120

gacatgcacc aagaccaaca tggtcatggt ttttggtgag atcaccacca aggccactgt 180

tgactatgag aagattgtgc gtgacacctg ccgcaacatt ggcttcatct ctgatgatgt 240

tggccttgat gctgaccggt gcaaggtgct tgtcaacata gagcagcagt ctcctgacat 300

tgcccagggt gtgcacggac attttaccaa gcgccctgag gatattggtg ctggtgacca 360

gggtatcatg tttggctatg ccaccgatga gacccctgag ctcatgcccc tcagccatgt 420

gcttgccacc aagctgg 437

<210> 5557
<211> 255
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f04b1

<400> 5557

tttttgccca cctatggcaa tattgccctc tttatattct ccctcgctca tcagcagcag 60

cgatggtggc gtcattgtcg gccttgcagc atgtggcata atcatgtcca ttgcctactc 120

tggggcagat ctttgaaagt tccaagttgg ttaatgttga tttttgctca tgcacaaccc 180

atcataggaa ttagtaggat cctctttgat ggatgtaagg actgcaccag gtttctttca 240

gcagcctggg gttgt 255

<210> 5558
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f06b1

<400> 5558

ttctgccgcg ccgatccccc caccagcgca gcagcagcca tggcgaccgc ctacaacctc 60

cggtcccgcg acgagccgga cgacttcgac gagttcgact ccacgcccta cggcggcggc 120

tacgacctct tcgtcacctt cggccgcccg ctcccgccct ccgacgagac ctgctacccc 180

tgctccgccc cctccacctc ctacgacgcg ccccactacg ccgccgagga gccctcccccc 240

tacgcccacc accagaagcc gcagcccgcc tacggcttcc gcccccagaa cgagcagcag 300

cagcagcctt tctacggccg tgaggacgac gactccggct acgtatccaa gcccaagccc 360

aagccccagc ccgcgtacgg ctttcgccct caggcggagg aggagcagcg 410

<210> 5559
<211> 490
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f07b1

<400> 5559

gtttatttga tagttcctca gagtggtgga gaaggccaag ctgagttagt tcttgattct 60

tgtattggta gttccactgt gcatgacccg tctaagatgt ctgctgagct ttgcattggt 120

gaatcttgca cttctatgtt acagttgatg aagaggtatc tccgattggc aacaactaat 180

gcatcatgga ctgcgaacaa ttcttttgca gtctacccgt attattatgg ggcttacttc 240

acttcgggtg tggcattgag tggcaccaca ggctatatta ctggtgatta tgtgggggctt 300

ttggcttcat gttatgccca ttctcgtgga gccctgaggt atagatggat gaacggctcaa 360

accactgctt cgggtacgat cactaagatt ataccctatg ataggctagt ggtagcctcca 420

gtgtctgtta caactaagac gacctcccaa ttgcttggcc aagcacctca aatcacatta 480

agtgaaaatg 490

<210> 5560
<211> 174
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f10b1

<400> 5560

caggatacca ttgataaggt tggagcaggg tgctcggtct tatgtgaacc gaggtatcat 60

gtctcgaggt gcctttgcag ttatctatgg actgcacttg aagtactaca taaaggatcc 120

tgaggttatt ctgggaagag agacagaaga cgtaaaagta gacatagatt tagc 174

<210> 5561
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f11b1

<400> 5561

gactccttgc accaactggt cttttccttg gaggcgcaaa gttcatggtc atccaaggtg 60

aacctggggt tgtcatccga ggaaagaagg gcaccggtgg cattactatc aagaagaccg 120

gcatggccct gattcttggt atctacgatg agcccatgac tcctggccag tgcaatttgg 180

tcgtggagag gctcggcgac tacctggtcg agcagggttt ctaagcccgc tctgatatgc 240

tgttattttg gtcgtctggg actaagtttg ctctactgtg ggctttgcat ccatctgctt 300

ggcgtaccgc atgatatatg cagtgaataa ttttagcttg gggtttgtcg gttggtgatg 360

tgtcgaaagg gaaaaatgga tttactatgc tttcttttta atgtttggca tcgcgtc 417

<210> 5562
<211> 215
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f12b1

<400> 5562

cccactcgtc cggtttgcgt ttgttaaaaa aaaaaagggg aaatataaaa aaacaatgga 60

aaaaaaaaaa aacaaaaaaa aaaaaaacaa aaagaaaggc caaaaaaaaa aaaaaaaaag 120

actacaacac caacaactgg ccagcctgac acaaaaaaaa aaaaaaaaaa acaaaaaaca 180

aaatacaaac gggccggccc tctttaaggg tcaaa 215

<210> 5563
<211> 271
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078g02b1

<400> 5563

tgctagacat agatgtggcg atgacaagtg aaattgatgt taaggagtat tagcatatgc 60

tcacaggatt actggaagct tattaaggtg gaaattagca agcaagctac agtcggtgca 120

aggatgtcca agtttactta ttactttacg aagatgatga ttcctgcatg ttgattgtgc 180

ttcaaggtgt tattaatatg gggagaagag cagtccaaat ggcggatgga gtatgtgacc 240

tgttgatgtt agtttcattt tcagaaggaa c 271

<210> 5564
<211> 326
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078g07b1

<400> 5564

tgctgctgtc tctgctccga tctcccccga atccaagggc aaattcaaat ccaaatccaa 60

gtccgccgcg gaagaagcga ggatgatcta ccgcaactgg tccctgctct cctccacggt 120

cgccatctgg ggcagcgtca gcgccgacgg cctcgccggg atcttcctct tcggcggcaa 180

ggagaaattg cagggctatc tttctcgcga aggctagagg ctgaggcagc aggacagagc 240

catgatgggc aagaactagt gcagaccacg gctcactttc gacgtgtcaa catgtgaact 300

agacatggaa cgaagtatct ctatga 326

<210> 5565
<211> 226
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078g08b1

<400> 5565

cttgtgttta acaatatcat tggggcgctg cgtcaaagtg aaaggtgaat gtttttgaag 60

tattttctta tgctcacagg attactggaa gcttattaag gtggaaatta gcaagcaagc 120

tacagtcggg gacggacgtc catgaggacc caatatctca ccacgatgca tgatacctga 180

atgttgtttt atagtgaagg cgaaattaat atgaggggac gagcat 226

<210> 5566
<211> 342
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h01b1

<400> 5566

cgtttaacat ccctgcgcat ttgagaggga ggagggattc attcagcggc cggtaatcaa 60

tggcttccgc tactgcttcc gtctcgtcgc actccagcgc cctgcgcgat ctcaaagccg 120

cgaggattgg agccgtgagg cagcaggtgg ccgtggttcc agcgggcctg ccggcaaagg 180

cgcccaaggg ccagcgcgcg agggcggtgc gcccgctgtg cgcggcggag ccagcgagga 240

agccagtgtc ggccttcgcg gcctcgtcgc cggtggcgcc tgtggaggag gaggaggcat 300

ctgccgtgga ctacgaggcc ctggcgcagg agctggtggg cg 342

<210> 5567
<211> 299
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h02b1

<400> 5567

ttataataaa gctctagcta gctggctagg cggcgaatct aatctgtcgt gactgaaagc 60

agaccaatat ggagggagcc caatggcttc acaagtagtt gtatgagtag aatagtacgt 120

gctaagcaac agtgggggag tgcaaccctc agatggcttg aataaaagag gcagggggcaa 180

aggcgaggct ccacacgagg gcagtgcgcc cgctgtgcgc ggtggagcca gttaggaagc 240

cagtgttagg ctacgaagtc tcctagtctg tggcgcctat ggaagaagat gaagggggt 299

<210> 5568
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h04b1

<400> 5568

ttgtatcgta cagccaaagt aggggtcgcg ggcgcggact attggttata ctacggtatg 60

cgacaggcca ccgggatgga agacgcagct ttcttctagc taggagcgac tgtgagtgtg 120

tgggagggct ctggatgagc tgctatgacg ccaaagaaac tttgtgctgg caggagtgtg 180

catagcaggt gggtggaacg tgtgatgctg atggaccata ggcccaaata aagtggacaa 240

atgaacgatt aactataccc cactaagggt gttggacgat taagacagca ggacggtggt 300

catggaaagt cgaaatccga tggggagggg cgttacaacg gatctgacgt atcaactagc 360

ccgcagaaag gatggagctg tagtgtggga ccaacacaag gcaatctggg ggagtgccat 420

gacaagatga gtaagaggaa a 441

<210> 5569
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h07b1

<400> 5569

cgtcaaacat ccctgcgcat ttgagaggga ggagggattc attcagcggc cggtaatcaa 60

tggcttccgc tactgcttcc gtctcgtcgc actccagcgc cctgcgcgat ctcaaagccg 120

cgaggattgg agccgtgagg cagcaggtgg ccgtggttcc agcgggcctg ccggcaaagg 180

cgcccaaggg ccagcgcgcg agggcggtgc gcccgctgtg cgcggcggag ccagcgagga 240

agccagtgtc ggcctccgcg gcctcgtcgc cggtggcgcc ggtggaggag gaggaggcat 300

ctgccgtgga ctacgaggcc ctggcgcagg agctggtggg cgcgtcgccg ctggagatca 360

tggatcgtgc gctcgacatg ttcggc 386

<210> 5570
<211> 399

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h08b1

<400> 5570

cgcccacgcg ttcgtgggat ctgtggggca acatatttgc tcatgagagg cgcatacatg 60

gatagaagat gctgcatctg atgacatgca tttgtcggtg tggataggag cctccatcag 120

ggcatggggc gaacttaaag tccaagtgtc tgtaaaagaa acagacagga gacatcgtga 180

aaggtctaaa attacgcagc tttcccccca ccactggtgg ggggttttgg agctgacccc 240

ttaggaaaac aattcttcga ttgattgcta gatacgttat gagacggacc tgtttaaggg 300

gccgatccat ttctgaagct aacacacttt aagtcgttga tttgcctgtt atttgaagac 360

ctcgttgatg catctgctct ggttaataac agtgcattt 399

<210> 5571
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h10b1

<400> 5571

cttagtgaag gagtgttaat tgaataactg agaaaaatgt gggatataga aagagtgggt 60

gatggcgatt tttttattag gatcgatgga tggatgggtg gatttgtaca ttctttttgt 120

tgattaattc gtataggttt tactttgttt cattcgtgta ggaatgaaat ttcgaaaaaa 180

aaagagaata aaacatcaaa caataaaaaa aaattaaaaa aacaaaaaaa aaaaaaaata 240

ataaatttat aaaaaaatta tattagaaaa atatatataa cttatggggg gggccttctt 300

taggaatcca agttttttaa ctctggtagg ggacatttta ttttttttt tgggtct 357

<210> 5572
<211> 77
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h12b1

<400> 5572

gaataataga gtaattacta aaaaaaggtt tctgaactgt ggctcgaata aaagagagga 60

agaaagtttt tggggtc 77

<210> 5573
<211> 317
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079a01b1

<400> 5573

gccgctttct ctgctgttca aatgcctatc aaacaccacc atatttggtt ttgctacgcc 60

cccgttcacc catggccgnc gncttgcccg agttcttcaa gccggcggac gccttctccc 120

cgcgcctgca cctcctcgcc gccggcgccg gcgcagaagc ctccgacggc gacgacggct 180

actaccgctg ctgccggacg cccgcgggcg ccgggaccgg ctgcctgggc caggcggtca 240

cctgcccgcc ggcgccgtgg aagccgtgcg cgcagtccga cgcccgtctg tcggaagcgc 300

cttttggcg tggaggt 317

<210> 5574
<211> 381
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079a03b1

<400> 5574

gatggcggac gcgaagcagc agcaggccgc ggcgcccacc ggcgtctgga agacgatcaa 60

gccattcgtc aatggcggcg cctccgggat gctcggcacc tgcgtcatcc agcccatcga 120

catgatcaag gtgaagatcc agttgggtga gggatctgca gctcaggtcg caaagaccat 180

gtatgctaat gagggccttg gttcctttta caagggtttg tcagctggtt tactaaggca 240

agcgacctat acgacagctc gtcttggatg cttcagggtt ttgacaaaca aagcaattga 300

ggcaaatgat gggaagccat tgccacttgt tcacaaagct tttattggtc tgactgctgg 360

agcgattggc gcatgtgtgg g 381

<210> 5575
<211> 419
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079a04b1

<400> 5575

gtccgttgtg atgcaccacg agtccctcct ggaggcgctt gctggtgaca atgttggctt 60

caacgtgaag aacgttgctt aaggatctga agcgtgggtt tgttgcatcc aactacaagg 120

atgaccctgc caaggaggca gccaacttca cctaccaggt catcatcatg aaccaccctg 180

gtcagatcgg caacggttac gcccccagag ctggactgtc acaccttcca cattgctgtg 240

aagtttgctg tgctggtgac taagatcgac aggcgatctg gtaaggagct ggaggtgctt 300

gccaaggtcc tgaagaacgg tgacgcttgt attgagaaga tgattcccac acagcccatt 360

gttgtggaga ccttcggcac ctaccctgct attggtcggt tcgctgtgcg tgacatgag 419

<210> 5576
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079a07b1

<400> 5576

ggttcttgtg ggcgggcgcc tgggcggcgt ggggggggtgc ttctgttacg gttcgggttc 60

tggttcgccc cgcggtcggt tcgagagaga ggtcgagtag ctagaataga aaagggtttc 120

ggtagagagg aagggcgatc catggcggac acggagaacc gatggttcgt gggcggtctt 180

ggctggcacc acctactaca ccatcctcca gcaggctttt ttctcagttc ggcgagaccc 240

tagacgccta gatcatccgc gacctccaga cggggagagt ccgtggctt 289

<210> 5577
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079a08b1

<400> 5577

gtcatgttcg ccgtcggcca ccccgacacg ctcggggact gtcccttctc gcagagggtg 60

ctgctcacgc tggaggagaa gaaggtgccc taccagatga agctcatcga cgtcagcaac 120

aagcccgact ggttcctgaa gatcaatcca gagggcaagg tgcccgtgta taacggtggt 180

gatggcaaat ggattgctga ttctgatgtg atcactcaag tcattgagga gaagtaccca 240

actccatcac ttgttactcc tcctgagtat gcatcagtgg gatcaaagat cttctccacc 300

ttcgtcacgt tcttgaagag caaggatgcc agcgatggct cggagaaggc gcttgttgac 360

gagctgcaag cactcgaaga gcacctaaag gcccatggac cctacatcaa cggggcgaac 420

atctccgccg tcgatctcag cctggctccg aagctctacc atctgcaggt cgccctggag 480

cactt 485

<210> 5578
<211> 510
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079a09b1

<400> 5578

cttaaatacc cgcagcatta cattgtatgg gatatgaatc tggatagtca catctattct 60

gaatttgtag tcaccatcaa attgccatct aaagccaaag attccctctt cacacaagaa 120

gattgtcacg attcatctga tgcttcactg gtcttgagtc caagttcggc cgacagtgta 180

tcacaggaca tgaatcttga ggcatctcca gcattgggtg gtcagtatga agccccatg 240

ttaggaggat caatggcaaa agctccaagt acaccttgga tgccctttc catgttattt 300

gcagctattt caaccaaact tcctcgcgag aaaatggaca tgatcaataa ctgttatgaa 360

gaattcaagg ccaagaaaat aagcagaatt gacctagtga agaggctgcg tctcatagtt 420

ggtgacagaa tgctggtcta cacaataatt cggctccaag ataaagtgcc ttcgatggtg 480

aaagcggaag cagcaaatgc tccagtcaag 510

<210> 5579
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079a10b1

<400> 5579

gcggcgtgtt atcctgtccg gcgcgcactc catcaggggg ggccactgat cctccttgat 60

ggtgggtctc accgcgccgt cggagcagat ccacccggcc taccgaaacc ttttcaacca 120

caagtgccac tctggggacg aaccccgtcg caatgacaac gtgcgtgatg gggactacta 180

gacggtgtac aagttcatgc ccggtgtcac cacccggggg cccaagatca gcgacttcct 240

ctgcaacgcc tagtaccaca acaacctttc caggcaacgt gggcttaaac tgcgact 297

<210> 5580
<211> 75
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079a11b1

<400> 5580

gcggcgtaat tccgtggtcc cacgaggcgg ccgacttgtt caaccacgcg gccggcgagt 60

gctaggtggc gagct 75

<210> 5581
<211> 249
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079a12b1

<400> 5581

cgctattatt ctattgctct tgctcgctcg cccaacaggg acgcgtattt gcgccttctt 60

ggtttcatta cacgttcttc tacaagaagc cgatccggat tgtactggcc ggtctggact 120

tccgacagga caccctngac gactagcaag agctgtctac atatagctcg cttccaagga 180

ttgggtttgg aggagaggct ggtcgattcc caggaggaag aagaagctgc aagagcacgc 240

aaaggggga 249

<210> 5582
<211> 75
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b01b1

<400> 5582

acataattat agaaacctgt tgtattcaga ggagttgttg gtacataagt tataactacc 60

ttgtcgcttt gcact 75

<210> 5583
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b02b1

<400> 5583

ctgatgtttt tgatgaggta gagtacacag tcagggagcg cagaggccga tatttatctg 60

caagagacgg gaggaaatac tctaggcaag gacgatagag cttcccaagg ctttgttata 120

ggattttatt tattcatagc gttgagttac ctaactagct accccaacct tgtgcattgc 180

tcgagtgcct ttgatgcgga ctcatacatt ctgagttatg acattatatg aaacaatttt 240

acatgccaaa aaaaaagagc tatggatcct tacagaaaaa aaaaaaaaaa aagaaaaaaa 300

aaaaattact gaaactgtta caaatgtata agcatacgcc taccaccgaa agtcagacag 360

<210> 5584
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b05b1

<400> 5584

cccacttttt cgcccacgcg tccgcccacg cgtccgcgat caatccatca ccacccccag 60

aattcatcca gatacgcata cacccgcccg gcttctagct tacttgcttt agcacttctt 120

tgcatatctc gatggagtgc gagaacgggc acgttgccgc caacggcgat ggcctgtgcg 180

tggcacagcc ggcgcgggcc gacccgctca actgggggaa ggccgcggag gagctgtccg 240

gaagccactt ggatgcggtg aagcggatgg tccaggagta cccgaaggcc ggtggtgacc 300

atggagggcg ccagcctgac cattgccatg gtcgccgcgg tggctgccgg cagcgacacc 360

agggtggagc tcgacgagtt cgctc 385

<210> 5585
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b06b1

<400> 5585

cggacgcgtg ggctaccaca cacacacaca cgcaccgggc acgaacgcac gcgcgcaccc 60

cctgaaggcc agctgcctgt gcccgtgcgc cgactcgccg gagcttggcg ttggaacgag 120

acacggagct tgcgggcttc cgggaacgtt acacgagctc ttagctgggt cttccggccg 180

gcttggtttg tttggccgtg cgcagcgcgc cgagtgacat gacgacgagc caggacgtgg 240

ttgtttcgga gatgggcatt ggggcgggtg gggcggccat gccgggctcc ggcgccgggg 300

gcctcttcgc gtgccgcagc gccgtcagcg ctcgagccat gaacatgcgg gagacgtacc 360

gagacctcgc cg 372

<210> 5586
<211> 502
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079b07b1

<400> 5586

agttctttgc tcatcacgac ggcaagtgca atgacgccgc cagcggcccg cccgttacag 60

tgttggacaa atgcgccagc cagccaacaa gcggggttta atatggacgg attccaagct 120

catcactgta cggtatgtac actactcgat gagcctcgat catcagacca gatggatgcc 180

ttatattgaa taactcatcc ttccttcacg tcctaaacat tacagatacg tatcttgtgt 240

tagggaataa aacttttatg taatgtaagc caggaggctg ccaaacggcg ccctagccagt 300

ttgtgtacga gcgctactgt ggccgagcga gccatcacat ggtttgtcat gctaataagc 360

acagggaact gaatgacgac cttatattga ttgatgtgtg tgtgtgtgcg tgcgcgcgtg 420

agtgtgccta gtgggggtga tctgtatatg tatctatgng tactgaataa attgtcctcaa 480

gatattcctt atttcctgtt tg 502

<210> 5587
<211> 503
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b08b1

<400> 5587

gatttttcga acttcctata tcctagtgct gtagacaatt tccggaggca atttgctaac 60

ttggaggaaa atggagggaa gggaggggca atcgttccat cggacaggaa gcatgtttcg 120

ctccccagga ctactacagt tcattctaca ccaattcctc caaaagatca gaagtcttcc 180

caggttcccc aaaggattcc aacaggtaga ccaggaagag tggttggccc ggtaatacca 240

tttgagaatt catgtgctat ggatccttac agtcaacgaa gggtggcaag gaatccagta 300

cttcctgcag ctgctaccaa tgtatcagca tacgcatacc accgaaagtc agacagttca 360

gagagagagt tacagcagga gcttgaaaaa gaccgcatgc agtaccaacc gatgcagcgt 420

ttcatggatg ccaagatggt ctcccctgac ttgaggtcta ccttctatta catgccaaag 480

ggtgtcccaa aagcagatgt agc 503

<210> 5588
<211> 479
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b09b1

<400> 5588

gatttatttt atgtttactt ggagaatccc ataaaccatt tttggttttg caaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaggg gggggggcta agggggaaaa aggaaatagg aaaaaaagat aagaaggaat 180

taatatttta atgggggggg gggtttttgg gggttaaagg ttttgtttgg gggggtggga 240

cggtttaatt ttttttgggg gggcacttaa tttgatttgg gggggggggg ttttaaaacg 300

gggggtgggg gaaaacgggg gggtttccaa tttttttttgt tttgaggaaa ttgtcctttt 360

tgggggggggg gaattcggga gggggcggga attgaggggt ttttaaaaag tggggccacc 420

ttgttgggga agggggattg ccttgggggt ggtcttttgg gggggggggg ggggggggt 479

<210> 5589
<211> 473
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b10b1

<400> 5589

gctttttctc gaggaggacg tcgcctaccg cgccaaggac aagccctact gcagcctgct 60

ggtggggctg gtgagcgcgt accgatacga agggcccaag gtgagcgacg acacgctcaa 120

ggcggaggcc aaggcgctgg gcgcggcggt gaagagcgcc gccggcggca agctgctgga 180

gaacgacgag gtggtcagga tcctcaccac caggagcaag cctcacctcg tccagacctt 240

caagtactac aaggagctgc acggcaagca catcgaggag gatctgggaa gcgagcaggc 300

tctgagggag accgtgcagt gcctggcgac gccggagagg tacttcagcc aggtgatggc 360

ggcggcgctg aaggagggcg cggaccacca ctggaaggag gccctgtacc ggctgccggt 420

gacgcggtcg gacgtggaca tggacggcat caaggtgggc taccatgagc agt 473

<210> 5590
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b11b1

<400> 5590

cccactcgtc cggatctaga tcgcgagcga ccgcccggaa ttttttaaca cctgtagaga 60

ttatttcaaa agccgaaaca ccttttttcgg ttttagctta cgtgatttaa gacttctttg 120

caaatcttga aggagtgcga gaacgggcac gttggcccca acggcgatgg cctgtgccgtg 180

ggacaaacag ggcgggccga accgctcaaa cggggaaaag gcgtcaaaga aatttgcgga 240

aaccacctgg atgcaaataa ac 262

<210> 5591
<211> 333
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079b12b1

<400> 5591

ctgtcttgtg ggcgcgaccc ccttaatcct tctcccagcc cttatctgta tccctctcca 60

tggccacggc ggcggcggcg aagcggaagc cggtgttcgt caaggtggat cagctcaagc 120

ccgtcaccag cggccacacg ctcgtcgcca aggtgctcag ctccaagacc gtcctccaga 180

aggcccgcgc cgctggcggc cccggcccag ccgccaagcc caccaggatc gccgagtgcc 240

tcatcggcga cgagaccggc tgcgtccctt tcacccgccn gcaacgacca gggtgatgtt 300

ttgaagcctg gcaacactgt cattatccgc aat 333

<210> 5592
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c02b1

<400> 5592

cgcacctgtt tcccttcctt cccttccttc cctttacacc ccccccccca acccccccct 60

ctatgtgtct ctctgcctat agctgtaccc tccctctaat tgggtagtac gtactccagt 120

agcagctagc tggctagaga tcagcgacgt tccttccggc catggcgagc accacgcgca 180

aggaggaggg gccggacaag cagcagcagc agggggggcac caagctctac tccaggatgc 240

tctccaagga cgtggccatc gccgagccgt ccttccgggt gtactacggc gtcgcctcgg 300

ccggctccgt gcccttcctc tgggagtcgc agccgggcac acccaagagt ttgtcctccg 360

ccgtcgtcct cccggctttt acgccggcgt cctcctacta cgcggccggc ggcaagggcg 420

gcttcaaaag gg 432

<210> 5593
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c03b1

<400> 5593

tttggtttga tagattcaca ttaataaagg ttcccaaacg tcaccatcga acatcttacg 60

aatgataaag gagcatattt caggtagcat atcctaacag gactggtgat attaaaaaac 120

taggatagca agagcagtat ggcaaccggc agatccaccg agcttaatcg atctcctgga 180

gcgaggcgcc ggtggccgtg gcacccccag cggcggcggc gacgtcctcg gccgtgaact 240

tgcccttggc cttgtcagca gc 262

<210> 5594
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c04b1

<400> 5594

cttgagtttg catggacgaa taacatgctg gatttcgcat ttacctatct attacagctc 60

atccgggagt acacaaacac ggtagatgat ttggtgaagg acaggataga atcgcagaag 120

gaagaaaaag cttaagagaa cgaatagaaa gaactagttg cgcagcagaa catgtacgct 180

caattgcttc ctctggcctt gcctgctccg cccggcatga agggcggtcc accttcgatg 240

ggcggaatgg gcatgccgcc gatgggcggg atgggtatgc ctccgatggg tcctggtcca 300

atgccagcat acgggatgcc tccaatggga agctactgag tcaaccaacc tctgttgtat 360

gaatttgaag agtacagatg atgtgaagta tttccagatg acgcaaaggg agggagacaa 420

tc 422

<210> 5595
<211> 314
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c05b1

<400> 5595

tctaattcgc tttcaggcct tgtgctgatc cataccggtg gttttcgtgc cttgtagtat 60

tatatgactt tccacttttt tctcttcatg ctgtgataca gttcaggatg tgattgtgta 120

tttgatgtag tccatattct gttgtcgtaa gtctagtaga agctggtgaa atttatttaa 180

agatcaattt cagtgggaaa ttaggacgat tgatgaaata agaacccaac tataattata 240

tagaatggag atttaggatg acaattgtaa agacctaata ggacatgtta aaagaacata 300

agaataggat aagg 314

<210> 5596
<211> 275
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c06b1

<400> 5596

gaccgtcttt cattgccccc aacaatgcac agactgttgt gttcattcac ctcactgtcc 60

gtctccagat tcttttggag ctggggcttc cttaatctca tcaacgtcat cctcattggt 120

gtcggatgtc catagagtca aattgtcacg caggagctgc atgattaaag tgctgtccct 180

gtaggattcc tcgcctaagc tgtccagctc tgatatagcc tcatcaaagg cttgttttgc 240

aaggttgcag gcgcggtcag gggagttcac gaaaa 275

<210> 5597
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c08b1

<400> 5597

gcatggtggc ggagaagccg gcggccaagg ggaagaaggg caaggccggc aaggacccca 60

acaagcccaa gagggcgccc tccgccttct tcgtcttcat gggcgagttc cgcgaggagt 120

tcaagcagaa gaaccccaag aacaagtccg tcgccgccgt cggcaaagcg gccggtgaga 180

ggtggaagag cttgagcgaa tcggagaagg ccccctacgt ggccaaggcc aacaagctca 240

agggcgagta caacaaggcc attgccgcct acaacaaggg cgagagcgct gctgctgctg 300

ccccaaagaa ggcggtggcc aaggaggtgg aggaggaaga tgagaaggag tccgacaagt 360

ccaagtcgga gatcaatgac gacgacgatg atgagggtag cgatgaggac gaggacgacg 420

accagtgaag aagacgcatc tt 442

<210> 5598
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c09b1

<400> 5598

aggttctgca cacagttccc gtaatctatg agaagtatga agatcagatt gataccctatg 60

gtgagaaggg gtggattgag gttaagaaac agtatgctgt gtttgatgcc aaggttctga 120

gcaaagtgcc gaggggcccc ttgaaagaca agaagaacta gaaacgagtg ataccgtgtg 180

ccatcggtat ggaatgatgg cgactggttc gtggctgccc ttgtggtatg agcaccaaat 240

ttctcaccag ttgtcttgtg ttatgtgtaa gactgttttc gttgtttgcg actttgatga 300

gagtagcctg ggtagcttac ccttcacagt aatgcagagg cagcacttgt ttcgctgtac 360

cgctgtttga tttttgatct gttaaggtgt cgcatgggta ccggttctag acgctgattt 420

tg 422

<210> 5599
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c10b1

<400> 5599

gctttttacc ggtctatgta cagggtttga tcgaacaaga ggctttggag gaagctaaga 60

atgatcttct tgattacaca ttaagtttca acccaaggaa gaacagcata tccaaacgcg 120

tggagaagcc taccatgaaa ctgacggttg atgctgagac cgatgaggtt atcggagcag 180

ccatgtgtgg accagatgca gctgcaatta tgcagggcat tgttgatgcg ctcaacgctg 240

gagctaccaa ggcgaccttc gacagcaccg tcggcatcca cccttctgtg gaggatgagt 300

ttgtgacgat gcggaccttg accaggcgcg tgagcccgcc atccaagcca aagacgaact 360

tgtaagcaag ttgcctgcaa tgttttggac cataattata ccggtgtgga cacgggaact 420

gtagacac 428

<210> 5600
<211> 400
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079d01b1

<400> 5600

agctcgtttt ccacaatctc aacagccatc ggaatcaaca gcagcagcag cggagcgatc 60

tcatcgacca actctcttcc aagtttcgat tcaacggaca tggggatgcc ggcggtgagg 120

aggagggaga gggacgcgga ggcggagctc aacctgccgc cgggcttccg cttccacccc 180

accgacgacg agctcgtgga gcactacctg tgccgcaagg cggccggcca gcgcctgccc 240

gtgcccatca tcgccgaggt cgacctctac cgcttcgacc cgtgggcgct ccccgaccgc 300

gccctcttcg gcacccgcga gtggtacttc ttcaccccgc gcgaccgcaa gtaccccaac 360

ggnttccgcc ccaaccgcgc cgncggcaac ggatactgga 400

<210> 5601
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079d02b1

<400> 5601

ctccgttcta ttcgtttcga tctatttcgg cttcctctcc tccaagcttc ggccatggcc 60

gccacgatcc agtccgtgaa ggcccgccag atcttcgaca gccgcggcaa ccccaccgtc 120

gaggttgatg tgtgctgctc agatggaacc tttgccaggg ccgctgttcc cagcggtgca 180

tcaactggtg tttatgaagc tttggaactg agggatggtg gatctgacta cttgggaaag 240

ggtgtatcca aggctgttga caatgtgaac tcgattatcg cgccagcttt gattggcaag 300

gaccctacag ctcaaactga gctcgacaac tatatggttc agcagcttga tggaaccaaa 360

aacgaatggg gttggtgcaa gcagaagctt ggtgctaatg c 401

<210> 5602
<211> 141
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079d03b1

<400> 5602

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgttcgtc cacgcgtccg 60

cccacgcgtc cgcccacgcg ttcgcccacg cgtccgccca cgcgtccgcc cacgcgtgcg 120

gccattgttt ttttgtggtg t 141

<210> 5603
<211> 457
<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079d05b1

<400> 5603

cagttttgtt gcatcagtca tgtacggtta tgctatcgtg gtacctgctg cattcttttt 60

cctgtttcag tactttggat cacgcccaag ccttatccgg ttttggtgta tgtggggcta 120

ttctctgttt atcttcgtac cagcatctat actgctactt attcctgtgg aatttcttcg 180

ctgggtcatc atagctggtg ctggtggtgc atcatcttgg ttcatctttt taaacttgaa 240

ggaatgcacc naaggagctg atatgatggc tctgatcgca agtgcatcag tgctgcagtt 300

tgctctggca ctgttcatca aagttttctt ttttgcctga ganctattcn tgggtgcttc 360

aggtgagctg gatgttttct ttgtgtcccc gtcgttctgt tctgccattc atcttttctg 420

aagaccaggc agtggactag tttcacccta catacat 457

<210> 5604
<211> 459
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079d07b1

<400> 5604

cttgatctta tcggtggtag tgctacaagc gagtgacact agttcttgca ccgatcagat 60

ccaacttctg cacaggatgc tggacaagct gtgggacgac gtggtggccg ggcctcgccc 120

ggagacgggc ctcgacaagc tccgccgggc cgccgccacc caacccctcg ccatcaacac 180

agctgcaggg gaggcgatta agcagtcgcc gtcgatgccg acgaccccga ccacgccggt 240

gacgccgtcg tcgtccacgc cgccgcgcgg cggcagcgtg tggcggagcg ttttccaccc 300

cgggagcaac ctggccacca agagcctcgg cgccaacctc ttcgaccggc cgcagcccaa 360

ctcccccacc gtctacgact ggctntacag cgacgagacg aggacaagga gcaaccaccg 420

cttaataaga gccgtcggcc agagaaactg aggcagggt 459

<210> 5605
<211> 428
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a01b2

<400> 5605

gacccacgca gaacgtgttc cggccagcgc gagaggctct acgaccgcgg caccatcctc 60

ggatacaagc ggtccaagtc gaaccagtac gagacggcgt cgctggtgca gatcgagggg 120

gtgaacacca gggaggacgt ggcctggtac ggcggcaaga ggatggccta cgtctacaag 180

gccaagacca agagcaacgg cacccactac cgctgcatct ggggcaaggt ctctcgcccc 240

cacggcaaca ccggcgtcgt ccgcgccaag ttcacctcca acctgcccgc cgaggccatg 300

gggaaaaagg tcagggtctt catgtacccg agcagcatct aaaaggttac tttgaagtgt 360

ggaggatttc gctcgcccct taggtttcaa ttcagagtct tgaagaagga atcaagcccg 420

gatagcaa 428

<210> 5606
<211> 65
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a02b2

<400> 5606

gacgtaatgg gtctcctata gtgaaaccga agggcaattc actgcaccgg actttacaac 60

aaaac 65

<210> 5607
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a03b2

<400> 5607

tttatttaag cgcggcaacg tcttcagaag agccaaagaa ggttaagacc ctttttgtaa 60

ttgcccctag accatggcag agagcaataa caccgtgacc cgggcgacct tacagtgggt 120

gtcgaccttg ccctagtggt gtgctgatgc aacacggccc gaagaaatat aaagagtatg 180

tttgtacctt tgaatattat agagcgtgca ccgagcaagc gtgatgatca aatcaaacca 240

gtcgcttcag gcgctagatt ttgatggatg tttgcttgta gtcatgtgcc ctccaattca 300

ggcctacttg gtgtgcaatt tttgcacac 329

<210> 5608
<211> 184
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a04b2

<400> 5608

ttctctcgcc cggccacgcg gccggcgacg cgtgggattt ttaccaggct tattgcgctt 60

gaccccggcc tctgagcagc ccagttacga acatgctgca gaaggatggc cgcagggcag 120

ccctaagcac gcctgagtat gcccgcgccc cacaagaaca ccgtatcgca ccccaactaa 180

ctgc 184

<210> 5609
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a05b2

<400> 5609

ccctcgcgtc cggaaatttt ttggaaacct gatggatgct ggaatgtgct cagtttgtgg 60

tgaagaaagc tttggcacgg gttctgacca catccgtgaa aaggatggta tttgggctgt 120

tctagcttgg ctatctattc tagcttacaa gaacaaggac aaccttggag gagataagct 180

tgttacggtt gaagacattg ttcttcagca ctgggctacg tatggtcgcc attatgatac 240

acgatatgac tatgagaatg ttgatgcaga agctgccaag gaacttatgg ctaacctagt 300

caagatgcag tcgcacctgt ctgacgttaa caagtcgatc aaggagatcc agcctactgt 360

tgcagatgtg gtatcggctg atgagtttga gtacaaggac cctgctgatg gttctgtctt 420

caagcatcag ggtatccggt ttctttttga gatggtttcc gactg 465

<210> 5610
<211> 54
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a07b2

<400> 5610

tttcttcacg cgtgcgtcca cgcggccggc gacgcgtccg gttctagatc gcga 54

<210> 5611
<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a12b2

<400> 5611

tctatcacgc gtgcggccgg caggctggac gaccggtttt tctacgacgt ttctgccgtg 60

ctctgggagg agctggcttc gccgggggcg gcctgccctc cccgcggagg gcccgggctg 120

gcgttcgccg gcgggaaggt gtgggtggtc tacaggttct acggggacgc ggagctccgac 180

gatgtgcact cctacgaccc ggccaccggc gagtgggccg tggtcgacac caccggcgac 240

aagcccaccc cgcggagcgt gctctgcgcc gccggggtcg ggaagcacgt ggtggt 296

<210> 5612
<211> 204
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001b01b2

<400> 5612

tgtatttgtg tgtaatacat atcctactag acttgtattg tgacgagcaa cagcagtgtg 60

gatttgaaaa atgatgatct gttatattta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaa aaaaaaaaaa 180

aaaaacatgg gggggccctt ttaa 204

<210> 5613
<211> 461
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001b02b2

<400> 5613

cgtcaactct gcccactgct ctccctcgtt cctgatctct ctccccttcc cgtcccgct 60

tgctcctcct gctcctgccg atcgctcatg gattccaagc cccaagcccc gccgtcggag 120

ggcgcggcgt acccgcgcat gtccccggag gacctcgcgc cgccgccgcc gccggtcgtg 180

gcgcccgcgg gctccaaccc ctacgtgctg tcctcgccct cctccggacc gcccgccaag 240

agcaccaagg agaatctgag ggagatgttc ggctcggtgg ggaagaggtt cagcgaggcc 300

gcgcgcaaga ccgagggcat cgccggcgac gtctggcagc acttgaaaac tgggcctagc 360

attacggatg ctgcaatggg gaggatcgct caggtatcca aggtcatatc ggaagcggga 420

tacgacaaga tattccagca gacgtttgag tgcttgcctg a 461

<210> 5614
<211> 481
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001b04b2

<400> 5614

ctagctagcc atggcatctt ccaagagtag tcttgcattg tttgcactgg tcatactcat 60

ggccgcggtg gctgacgtct cggcgcagaa caccccgcag gacttcgtca acctgcacaa 120

ccgcgcccgc gccgtggacg gcgtcggccc cgtggcatgg gacaacaacg tggccaggtt 180

tgcgcaggac tgggcggcgc agcgcgccgg cgattgccgg ctgcagcact ccggccggcc 240

gttcggcgag aacatcttct ggggttccgg gcagtcgtgg acggccgccg acgcggtgaa 300

gctgtgggtg gacgagaagc agaactacca tcttgacagc aacacctgcg acgcccgcaa 360

ggtgtgcggg cactacacgc aggtggtgtg gcgcaagtcg acccgcatcg gctgccgcgg 420

cgtggtctgc acggtgaacc ggtgcgtttt catcacctgc aactacaatc ccccggcgcaa 480

c 481

<210> 5615
<211> 251
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001b06b2

<400> 5615

tatacttcgc aatatcacaa gcgtgatgtt acggggtgtc atttgaggca tgttccatct 60

gacatcactg cgtttgtgcc tattactcat acatgggtat ggcggagatg tataaattag 120

caaaagaaat agcgctccaa attgattgcg ctggaaaaaa ctgaatgccc gactacaatc 180

gatggtagaa catcagaacc gagatgccag cctgacgggg aacgatagaa gaactgtcgc 240

atccgcgtgg c 251

<210> 5616
<211> 472
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001b11b2

<400> 5616

ttttaaaccc ctcgtcggga cgaccgaccg accgccgcgc cgtcctccca aaccccgcaa 60

gaaaatggcg accagcgcca ccttcctcca cctcctcgcc cctccgggcc tccgccccaa 120

gcccatactc cggccccgcc tccgccgcct cgccctctcc gtctcccccc cgggccccga 180

cgagatcccc gccgacgacc cgcccgtgct cccctccatc ctcgtcaaga acaccgagcc 240

cgaggacgtc gcgcgccgcc ggagctgggt cgagcacggg tgggcgccct gggaggaggc 300

gatgagcccc gaggtggcct tcgcgcgcca cagcctgaac gagggcgagg aggtgccgct 360

cacctcgccg gagtccgtcg aggcgttccg catgctcacc ccggcctacc gcgagaaggt 420

ggagtccgag ccggggtacc tcgagcgcct cttcatcatg cgcgagacgc cc 472

<210> 5617
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c01b2

<400> 5617

acccacgcgc attctttgac aacgccgcga aaaagtgtgg caagaggggc ttgagagaga 60

gaatgtgtgg ttggtcgacc ggcacgagaa ggctgaagca aggacgccaa gagcggggat 120

accagcaggc aacccaaagg gcggaacacc aacaggaaac ggcgcaaccg gcgccgaaag 180

cgcagccgag gaaagccaac aaaacaacgg caccgtccga ctcagcaggg taatgcgcga 240

gaaccccagg cagtgggttg aacatgccag agcttggaaa cacaagctac acgagacacg 300

gaggagaaag cggaaggag 319

<210> 5618
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c02b2

<400> 5618

ttgtaacgtc cgtcgatctt cttcctcgtg atcatagatc gcaacgaaat tttgttaccg 60

ttcattaact aatcaatttg cgattgattt tgactagcag gtggtgaagg atgggtacca 120

atggcggaag tacgggcaga aggtgaccaa ggacaaccca tgcccaaggg cctacttccg 180

gtgctcgttc gcgccgtcgt gccaggtgaa gaagaaggtg cagcgcagcg ccgaggacaa 240

ggccgtgctc gtggccacgt acgatggcga ccacaaccac gcaccgtcgt ccaagccaca 300

aggccctagt ggcaggaaga gcggcgacgc aaccgccgtc cgcgcaccac cggcgccggt 360

gcttgttcag cagcagcgga agcaggaagc ttcgacggcg gagcaagtgg ccgacaggaa 420

gaaccttgtg gagcagatgg cggcgacgct gacgagggac cccgggtt 468

<210> 5619
<211> 260
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c03b2

<400> 5619

tgttttacct atgagaattg gccatgccct ttggaagatt gcgatcgaga gcagctactt 60

ccagcaaggt cgtggtgcaa cccgctgata cagtggtatg gtttgctaga atcaggaatt 120

catttgtttt accctgaacg atgtatgact gtcgcagttc tgtcatttgc aaaactataa 180

tgaatggaca gccctatgtt ttgcaaataa aaaaaaaaaa atttaacctt aaattacaaa 240

acttattatt ctttcactct 260

<210> 5620
<211> 457
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c04b2

<400> 5620

cggctactcc aagggcaccg gcctgggcgc ggtgatcatc ggctccttcg tgctcgccta 60

caccgtcttc tccgccaccg accccaagcg cagcgcacgc gactctcacg tcccggtgct 120

ggcgcccctc ccgattggct tcgccgtgtt catggtccac ctggccacca tccccatcac 180

cggcaccggc atcaacccgg cccggagcct cggggccgcc gacatctaca acaaggacaa 240

ggcctgggat gatcagtgga tcttctgggt cggccccatg aatcggcgcg gcgatcgcgg 300

ccttctacca ccagtacatc ctcagggccg gcgccatcaa ggccctcggc tccttcagga 360

gcaacgcgta acaagttatc atccatgtga cccgcacgca agattgaagc aatggcgacc 420

cgtgctgggg catccatcca agagacatgc ctattgc 457

<210> 5621
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c06b2

<400> 5621

tttttgttct gtatttaaaa agttatcgag atggaagcaa gagtatgtgc tgtccttcaaa 60

ctgtttcttg tcgccgtaaa tcattgtcac gttgatttgt actgactatt ttgtacaatg 120

gaaataaaat tattacatgg tcaaaaaaaa taaagataat caataacatt gacttccttt 180

tcttggtgaa caact 195

<210> 5622
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c11b2

<400> 5622

tctttcatcc ccgataccaa agcccatctt ctgggccttg aaatcatttt gggttcacag 60

atctggagga tgtcttgcaa ctgtggatcc ggctgcagct gcggctcaga ctgcaagtgc 120

gggaagatgt accctgatct gacagagcag ggcagcgccg ccgcccaggt cgccgccgtg 180

gtcgtgctcg gcgtggctcc tgagaacaag gcggggcagt tcgaggtggc cgccgggcag 240

tccggcgagg gctgcagctg cggcgacaac tgcaagtgca acccctgcaa cagtggaggt 300

ggatgcacta cttcgtgcct acgagagaag gtgtgagagt atacttgaat aacgagcgtg 360

tgatcctgag gagtcgagca agggtgcgtg tgcgtgagat ttggttgctt gctctcc 417

<210> 5623
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d01b2

<400> 5623

ttatatttct tgctctgtat ctgtgtgccg agtgctagac ttgagagagc gagagaggga 60

gggaggtcgg ccgacaaggt tcaggaagga tgcctcgcgc ggggttgtcg gcggggtcga 120

acaagttgga catcgccatc gacctcggga acccgctcct caaccgcacc gtcgacggct 180

tcctcaagat cggcgccgtc ggcgcctgca gggtggccga cgaggacgcc ttcgactgcc 240

tccaaagtgg gagtgtctcg aagcgcaagc ttgagcagac actgaagaaa atgtgcaagg 300

agggcgcata ttggggtgct gctgctggag tgtatgtagg catggagtat ggagtggaaa 360

gggtccgtgg tcagtatgac tgagaaaatg cgttgattgg aggcatcaca agcggcgccc 420

tgatctatgc tgtgagcaac aacaaaggga ac 452

<210> 5624
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d02b2

<400> 5624

tattttgcgt gcctatccat atacatgcgt cgagggcaaa attaaaaaca gatttttcct 60

acgtttccaa caggaccaaa cagacacaag taaaaagaaa agcatggcac gtgagaccca 120

cgaacgcaaa gggggggcggc cgttcaagag gccccaggct aacccccgcg accaggccga 180

actcatagct ctttaatagg gcccccaaaa gcaaaacaac gggccggcct taaacaacga 240

ttggccggga aaaacccggg ggaac 265

<210> 5625
<211> 310
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d03b2

<400> 5625

tttttggata ctcggctctc aagaggcatt ctggcatttc gtgacgtttt gtctccagtt 60

ggttttatgc gagaactggc ggtgagccgc agtatgcata ttgccgtaga ccttgccttc 120

gctgcttgct acagtagtaa ataggcgtat gtatatattg atgatgtttg ggtacctgta 180

cgaattgatg caattcagca attgttactt ttagcagcag caacctttc gcttaaaaaa 240

aaaaatccaa aaggaaaaaa tataaaaaga caacagaaca aataaatata aaaaatataa 300

taaatataag 310

<210> 5626
<211> 235
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d05b2

<400> 5626

tttctcacgc gtccgcccac gcgtccgccc acgcgtccgg ctgactgaag cataacttgc 60

ttccagcagt gttttgtcct aaggaattat ctgtttttg cagtttagac gatactttgg 120

attcagttct gctggctgtt tagtcaaggg tatctttgta cttggtgcca tggatctttt 180

tgttatgtta ttccccccta aaaaaaaaaa ataataaaat ataacaaata ataag 235

<210> 5627
<211> 55
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d07b2

<400> 5627

cccgcaactt ctttttccga attaccggtt ccaaccacgc gtatttagac cgcga 55

<210> 5628
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d08b2

<400> 5628

gctttccaag ctagcacgcc acgcgtgaca agtggtcttt catgggagct tcatgcaata 60

tcgaagcaat ggcgacctgc gctgtgccca ttcagagaga aatgcgcttt tgcaacttct 120

caacagatca gctggcccgc actggacgtg ttatttatgt gtcggcagca gcatatgctt 180

ccagcgagta cgtggatggc cttcatgtgc ccggccctgc gtgccgggac ttgcaattcg 240

gtccatggga tcgctgtgtc tcaattaggc cgcattgctt ttcctactgt atttaaatat 300

ggcgtccata tgatcgaacc atcgtcagca cctttctgta tgagctatga attcaccaag 360

caagtgactc attccttgat acctaaccca cagtattctg gcacctttaa ctgctct 417

<210> 5629
<211> 591
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d09b2

<400> 5629

gaactcgccg gcggttttgt ccgtattccc gtttgaccca cgcgttttgg ggttcttcact 60

gggaagtata gcaaagggaa tatacttcgc tgaatgtttg tttgccttac ataacttacaa 120

gaacctggca aacaggtctc tggttgacga cacgcttaga aaagtgaacg ggctcaagcc 180

aatcgcttcg gagcttggcg tctcgatggc gcagctgggt atcgcctggt gcgcgttcgaa 240

ccccaacgtg tcgtctgtga tcactggagc caccaaagag agccagatcg tcgagaacat 300

gaaggccctg gaggtcgtcc cgctgctgac cccagaggtc ctggagaaga tcgaggcggt 360

cgtccagagc aagccgaagc gcctcgagtc gtacagatga agcggtcggt cggtcggctt 420

cgtcagctgt gcagcgtgtg ccccgccgcc gcccggtggg atttttttcag tacccggttc 480

ttcgaaaaac catataccga acgtcctgtg tggtcggcgt gcccagcggg cgaaacattt 540

tgtcgagtgg acctgatgat gaacggtggt cgtacagaca atgctttaat g 591

<210> 5630
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d10b2

<400> 5630

gatcatgcag cttctgcgtg ataacctgac gctgtggact ttggacatct cggcggacgc 60

tgctgaagaa atgaaggatg ctcccaaggg tgaatctgga gatggacagt aaacactgtc 120

tatgtgccca gaaacttgtc tttctcgctt gttcagtgta gattgtaatg tcgtcgtggt 180

tgctggtaat tggaggctcc aatttgtgct gtgataggga agcttgtagc tgccttgctt 240

gctcggcggc ctgattatcg ggctgcactg gttattgcct cttgttgaac ctttgtgtta 300

cttttggtgg tatctagaaa ttttctgctg ctcttgtttg tgacccctg cctttgtatt 360

cactagatga ccagttgcgc caatggcgca aaggccgaga gtaagccatg tttttgaaga 420

atgtacattt a 431

<210> 5631
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001e01b2

<400> 5631

ttcttttcaa caactgagct agttggcact ccgggctaca taccacctga tttcggacat 60

ggatgggttg ctacactgag aggtgacatg tacagtcttg gcatggtgct acttgagctg 120

ctcactggaa ggcggcctgt gctggtcttg tttttatcaa aagaacttag tgaactgtgt 180

acaggagatg aaatcagaag ggaggcagat tgaggtcctg gatactacac tccggagcac 240

agggtatgaa gagcagatgt tgaatgtgct cgaagccact cgcaagtgtg tacactataa 300

tcctttactg aggccaacca tacaggagat agtgttcttt tctgaaagtt tagacgccaa 360

gcttgagaca cgaaattcag ttcagataga aagaggttag acttgattat ttggaagtca 420

attgcacatg gcagacgtag ctttcaatta actagtactg ttaaatttat actt 474

<210> 5632

<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001e02b2

<400> 5632

aggcacctgt taccggcaca ccccggactc gacccacgcg cattttttac cacaccaaac 60

cctagcctcc tcctgcgcgc gccgccgccg ccgccgccat gtcagggagg aagaagaccc 120

gcgagcccaa ggaggagaac gtgacgctcg gccccgccga ccgcgagggg gagcacgtct 180

tcggcgtcgc gcacatcttc gcctccatca acgacacctt catccatgtc acggatctgc 240

ccgggaggga gacgctcgac cgcaacaccg gcggcatgaa ggacaaagct gatcgagatg 300

aatcatcccc taatgcagct atgcttgcaa ctcaggatgc cgctgtaaga cgcaaggagc 360

ttggaatcac tgctctgcac attaagctcc gtgctactgg tggaaacaag acaaaaactc 420

caggtcctgg agcacaagct g 441

<210> 5633
<211> 345
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001e04b2

<400> 5633

ctcccatgct tccaaccagg gcggttttta caaatggttt tttatcctcc gctcatgccc 60

tgtgtgtcgg caacatgtgc agcgtatata ggaatacatg cattccttac aatcgagttc 120

tctgtcctag aaggaattaa ttatcgcaaa tactctgctc tcatacaacg taaaaaggga 180

gaggagagag agcaagcgga tctgtacaca ccgagtactc caagcaagcg gatctgtaca 240

cacccgcgac tccaagcaag tggatctgta catctgacac atgatcttac attctgcgga 300

aaatgatgag tggaaacgcc tgtcatagaa tgaatccaat acatt 345

<210> 5634
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001e07b2

<400> 5634

gtccgaccac tccttcgacg acgggaagct tgtgctcaag gttaccgatt accgcaagtg 60

cctgaagttt aagactgatc aagctcagga cgcatagaag atggagaagc ttaacaacat 120

ctttttcgtt ctcatgacta gtggacctga tgctgatatc cgcgaggttt cagggaagga 180

acacgcggag cagtagctat caaagaaggg acggtgcagg aggcagtagt atcatgttct 240

gggtttcttt cagaatgatc acaactggga gtggtgggtg gacattctga tcgactcctg 300

ttagccat 308

<210> 5635
<211> 377
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316001e09b2

<400> 5635

tgatcgcgag cggcgccctt actccttttg gtgtttattt catgcagatc aatcaccatt 60

tcagnccacg gtgcactgct taaataatta gcacaccgtg cgtgataatc atctccctct 120

ccttctcttc tcaccattac atacatacat atactaatta atcaacaacg cacacagcaa 180

ttaacacaca tacgaaaacg gaggctatga cctatacgta cgtacgtaca aagtgcccgt 240

atatgcgctt gtgtatgcac gtacatatgt acaggctgct ggtatatata aggaaagtgt 300

atactgcata tagttggatc gtcggtcggc ggtggcgaag gcgattttgg tagatggata 360

gggtggctac attcttt 377

<210> 5636
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001e11b2

<400> 5636

tgttcttcca cgcgtgcgcc cacgcgtccg cccacgcgtc ctgccacgcg tcctccggag 60

ctcgcaccac gcgcccccc tccccccct gtgatcgctc accgtggtct cgccgccggg 120

ccgacccctt caccgggatt ggattcggag cccagctcat ccgccggcag ccgagccatg 180

ggcacggatg tggatgctcc cgcagttgtg actgacaagg aggtggttgc tgagaacatg 240

ttgggtgaca agaaagtcac agtagtattt gttcttggcg gtcctggaag tggaaagggc 300

acacagtgtt ccaacattgc tgaacacttt ggattcaccc atcttagggc tggagat 357

<210> 5637
<211> 484
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001e12b2

<400> 5637

tttttgaact acaaaaagga cttgttatca agcataatgc ttaccagcgt tttgccacat 60

gtgctgcaac agcttttctc ttcaaagaaa tagctcgaat tcataacctt cccgtccagg 120

aatttgttgt aaggaatgat atgggttgtg gctcaactat cggtcccata cttgcttctg 180

gtgttggcat acggactgtt gattgtggta ttcctcagct ttccatgcac agcgttcggg 240

aaatgtgtgg caaagaagac atagacacga catacaagca cttcaaagct ttcttcgaga 300

tgttctcgga cattgaccag aaactgaatg tagattttta ggtcttgaca tctgaatgtg 360

cagcctctta ataatgtatg gatattcagc tcggtctctg aataatgtct tgatcattgt 420

atcagctttt gttgcatatt caatctggtt aagacaagag cactggctct gaaatcattt 480

tcca 484

<210> 5638
<211> 188
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f01b2

<400> 5638

ttctgctccg cacacgggac agcggcggcg ccgctgaatc aggagcccac cgacgccggg 60

gtggacgccg ggcgcgcgtt ccgcggcgtg cggaagcggt cttggggcaa gtacgcggcg 120

gagatccggg actcgacgcg gaacggcgtg agggtgtggt tgggcacgtt cgagagcccg 180

gaggcgga 188

<210> 5639
<211> 461
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f02b2

<400> 5639

ttctatgcat ccgcagacgc ctgggcggcg atgcagatcc tattccggtg ctgttgcggt 60

gaggcggcgt gcccggagtg ggcggtggtg gaggtgcagg gcgtgctgca gccgcagccc 120

tgcttctccg gccgcataca gggcctccac atcggccgcc tttgctccac ctacttcgtc 180

ccgtcttcca agggcgggta caccttcacc gcggggtacc atgagctcgc cggctcgaaa 240

gtgactctca agaagcccct tctggtgctg aggaagaaga agaacgacaa ggtgaacccc 300

ggcgagctcg gacaaggtgg acaggcggcg gcggcggctg acgtggagct ggaggtgatt 360

ggcatcatcc ggcacaagaa cctcttcaag gaccgtccca aggcccctat tcaaagccgg 420

tgccgtatga aaagaaggcc atgcctgaag cggcgacccc a 461

<210> 5640
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f04b2

<400> 5640

tttctttatt tcaactggaa atagatagtt catctggcaa ctttggtgca acattttctt 60

tccatagatg tgcatctgat gacttccatt tctcgttttg gttaggagtt cccacgatgg 120

gatggttaca aacttaaagt ccaagtgact ataaaagaaa caacaaaaac atagtaaaat 180

gtataaaatt acgcagcttt ccccccacca ctggcggggg gttttggagc tgaccgctta 240

ggaaaacaat tcttcgattg tttgctagat acgttatgag acggacctgt ttaaggggcc 300

gttccatttc tgaagctaac aaactttaag tcgttgattt gcctgcgatt tgaagacgtc 360

gtagctgcat cctgctttgg ttatttcagt gcatctgcgg ctgtttttat tgcaacaaaa 420

aataaaa 427

<210> 5641
<211> 475

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f05b2

<400> 5641

acctttgaa ccctacccac ctgagcgtaa actaagggga cctttcaaac tactaccttc 60

aaccctccca ccaaccactg tgcatacacc ctcccatgat cccataaccc tcggacccca 120

aaacagtcaa cgccagggga ggcacctgcg ccgcccgcac cccgaacgtg ctccagggct 180

tgcacgaacc agcaaatacg caaaacctac acatgccgcg gcacaaaaga ccggcgtccg 240

cgacaggagg agagactttc gaagccgaaa ctcgagagct cccgcgcctg gattgctctc 300

ggcagtcgcc cagggtagcg caagcagcta aggatgctcg gacgaaacaa agcaacaacc 360

agaacaggcg gcataaacca cccggcaaga gaagaaaaag gcccccaagg gaagaaccta 420

cccaaaagac gccatgccgg aaggcaaagg gcccccgaag cggaaaacat tccca 475

<210> 5642
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f06b2

<400> 5642

ccctatttcg agcggccgcc gcagccgcct tcgtccaggc cgccacgatg ccgtccacca 60

agaccttccg gatcaagcag aagctggcca agaagcagcg ccagaaccgc cccatccccc 120

actggatccg catgaggacc gacaacacca tcaggtacaa cgccaagcgc aggcactggc 180

gccgcaccaa gctcggattc taatccgggg atgacggcga tgacacccgt tgctgccgac 240

gggagaaggg tctagggtac ctagggttta tgacgtctcg ctgtttttgc acgctagcaa 300

gtgactccgg gatgcc 316

<210> 5643
<211> 219
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f07b2

<400> 5643

tcttccacgc gtccgggaac attggaggat atgacagcat agcgcatgct tgatcattac 60

cttcccagaa gagctcaacg gtgtatgctt accaccagaa gtcattgcca ttcatatttc 120

ctccctgatt gatgtgtaaa ctcagagctg taatggagaa atgaacacta tgtgagattt 180

cagatttata tgctgtacaa gtggccttac cctgctgat 219

<210> 5644
<211> 206
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f10b2

<400> 5644

tctttcggca tgctgaggct gccggaggaa gagcagcaca agggatatct cagagctctg 60

taccaaattc tccgccagat gctgctcccg gcatcctgat tcgaacttcc aacttcacaa 120

acgattctat atgatgcctt gtggcgccga ttgcctctaa aaaaaaaata aaaaaaaaaa 180

aaaattaaat aaaaataaaa aataat 206

<210> 5645
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f12b2

<400> 5645

tttctccgct acagccctga ctcggagatc caaacccagt attcctgagc ttctcatacc 60

tacaaattat taggtcgtgc ttttcggctt ccttctgtct ccttagcttt ccccatttat 120

tgcaaccttc tcaaatctca agattccaac tggtcaagga agtgaagaac aaggacagaa 180

ggacatggat gccttaagtt caatgctcga caaggcgaaa gacaaggtga aaagcaaccc 240

tgatgtgatg gagaaagtca attcggtcct cgacaaggtt aagaaccacc cagaagtcat 300

ggagaaagtt gctgaggttt tacatctggg aaaacgtgaa tccaaagaga aagaacccga 360

ggccgaggac aagacaaaag aaggcgagac ctttgccgac aagacccaag actcaaacat 420

cctagaccag tccgtgg 437

<210> 5646
<211> 503
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g03b2

<400> 5646

ccacagcgtt ctttttgct ttactgatgg ctgctcttaa atctggaaat gcaccccaaa 60

tggtttcggg gtatgcaccc caaatggttc ccgggaatgc cagtgtgcta aatgctaatg 120

gttctaatgc ccctaatgga agcttgcctt cccatagctg gcctaatcta ggttatcaga 180

accctgcatc tatttcagca gcagcaccac aaaatggtgt cgccaaggct gggaacaaca 240

atcaggactt cttttctggg aacttcggtt ttggttcgcc cggcatgcca gcaaatgggt 300

ccacaaccgc aggtgctaac aagagcgcat acacccctac cttttgtacc ctgcccttt 360

aatcaagcat agagtacgat ttttcctcat taacgcaagg aatgttttcg aagcgattaa 420

tggcttgaaa tactcggaga tggatgaggc cttcataggg cgcagattta gggagaacgt 480

tgggggggcgc ttgtacactg ttt 503

<210> 5647
<211> 339
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g05b2

<400> 5647

ttattttagc agacggccat agcctagacc atacggggct tccttcaaca tttgacgggc 60

ggcaaaccca tgccctcagc tgaaattagg gtcgcctgca gagcagagaa ggcagacggc 120

catggacggc gacagcccgg cgatgacgga cagcgagcgg agggcgaacc ggtacgtgca 180

ggcgcccaag gtgcatggcc tgggcggcat gaagaactac atggaccaaa cgacatctct 240

cttaagcctc agctacgccg gcgcgggggg cagggccgtc gaccactcgt gcgactgcgc 300

gccaaccacg cacccgggct ccttccgctg caagcacca 339

<210> 5648
<211> 470
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g06b2

<400> 5648

attcccgggt ttttccacgc gtctgtcttc gcctccgccc acgcgtccgg gcgcctatga 60

aggtgtatcg gctgtttctt gtgtcttcct ggatggcgcg ggtcctcgtg tgcctcgagg 120

aggccggcgc cgagtacgat ttcgtgccca tgagcaggaa cggcggcgac caccgcctgc 180

cggagcacct cgccagaaac cccttcggcg agatcccggt gctggaggac ggcgatctga 240

cgctctacca atcccgtgcc atcgcaaggc atattctgcg caaatgcaag cccgactttc 300

taggagcggg cagcctcaag gagtcggcga tggtggacgt atgggtcgac gtggatgccc 360

accagcttga gcccgtactc aagcccattc gtgtttaact gcatcatcaa cccgctcgtt 420

gggagggacg tcgaccaggg cctcgtcgat tgagagcgtc gagaagctca 470

<210> 5649
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g08b2

<400> 5649

tttttgacgc gtgggcgctg ccgccgccca aaatccacct gtgaagaaga aatgagggcc 60

ctcttctctt cctctctcgc gtccgatggc ctcgagcccg ggcgtcggcg gcggagcggc 120

ggacggcggc ggaggggatg gaccgacgac gctcgacgag ctgtaccaca tcaacgtcgt 180

gccggccgag ctgcacttca agttccgcaa ggagctccag ggcctccgcg tgggcctcaa 240

cttcgagttc tacaacctag aggtgaatga ttttgaggca aaggtagttc tgaagccccc 300

ggactttgac cggaagtgga agttccagta caagcccatc agtggtgaca tacagctgct 360

ttccaagaag ataccagtca caaaatatct caaccttcag gtcggcattg gtcacaattt 420

ccaactgaag gcaactggat ggacgtggaa gctctctact gcttgggggg agatgctgtt 480

tttcagat 488

<210> 5650
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g09b2

<400> 5650

tcttttcccc caacggcttg agggcattga tggatcattt ctatacgcct tccacaacat 60

tgccctccac gatgtcaaca tgcgtgcatt ggacggtctt atgggaccag tctatgcagg 120

cactggctga cagcttcgcc gtgtctgcac tcctatggat ttgaccctcc acgctccaca 180

gaacacggag gctgctgcag cagttgcttc ctgaagaagc gcacgatcaa gagcactgtt 240

tcctcaggca catttgaaga gacaacggtc tttgtgcatg gcaaactttg atgatcagga 300

gatgaacatg tcaacatttt ccaagaggtt cggttattca aactacctca tcaactctat 360

ctcgaatgcc gtttctaagg gcgcccgctt gatgtcaccc tgggtcaaga agggcgtcca 420

cca 423

<210> 5651
<211> 74
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g10b2

<400> 5651

tctggccgcc ctttttttt tatttcaatt ttggggcttt cttttgcggc attttttcta 60

atctgtcctc aaaa 74

<210> 5652
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h01b2

<400> 5652

tgttttcgac gacaacggcg tggtgatcaa gaggaagatt aagaagggtc tcatgcagaa 60

gctccaggag aagctgcccg gccacaagga caccgagggt gagcacgtga cgggcctacc 120

cgcaccggcg gtccccgcgt ccgtgcagac ccaccatgac accgacgtcg tcgtccagaa 180

gatcgacggt gacgtgaaga cagaggcgac accggcagtg cccgaggagg agaagaaagg 240

cttcttggaa aagatcaagg agaagctgcc cggcggccac aagaagcctg aggacgctgc 300

tgcggtgccc gtcacgcacg ctgctccggc gcccgtcacg cacgctgctt cagcaccggt 360

gcacgcgccg gcgccggccg ccgaggaggt gagcagccct gacccgagtg agaaaaaggc 420

ctgctgggaa gatcatggac 440

<210> 5653
<211> 178
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316001h02b2

<400> 5653

tanaggccac gtgatgttcg gaactcagag cgtaagttct aggaattttg atctgcgtat 60

tgccaacatg atctgattat ctcatcgttt atctgaagtg attcgatata ttaaaaacca 120

aaaatacata aaaaaaagaa aacataacaa aagaaaaaaa aaaagaccaa caccaatg 178

<210> 5654
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h05b2

<400> 5654

ttcttaaccc cggcaaaggc gctgccatga tccgcgggct ttttcaggac tgtttcgggt 60

ggggccgaga tgcactggcc ctacgggccc cgactggggc caagccggcg ccagacgaaac 120

tcagtcaggc tcacgaccgt cgcgtgcgcg gctgccagca tggtgacgcc catgacgacg 180

ccctccaggc ggactgcccg ggcgcgcgcc tctgaggaga cagagatggc tctgcggtcc 240

gagacgggcc tctgcatgct caggaggggc aaggaacact gccagaggcc gaacggccgc 300

cgggacggca ccatgtccaa cacctacgag ccggtcaagg tcctgggccc gccgacggcc 360

aacctcagcg acc 373

<210> 5655
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h06b2

<400> 5655

ttctttgcgt ccgcccacgc gtccgcccac gcgtccgatg aggacggcgt gttgtgcggt 60

gtgtccgacg gccacgggcc gcacggccac ctggtggcgc gcagggtgcg ggactcgctg 120

ccgctcaggc tcatgtccgc cgcgcgcgcc tcgcccaaga ccgggctcga catgccggcc 180

gccgcctgga ggaaggcctt cgcgcgcgcc tacaaggcca tggacaagga cctccgctcc 240

caccccgccc tcgacagctt ctgcagcggc agcaccgccg tcaccgtcct caagctcggc 300

acggaccttt acatggccaa catcggggac tcgcgcgccg tcctaggctc cagagacgcc 360

gccgccggcg gcatggcggc cgtgcagctc accgttgacc tcaagcccga cgtccccagc 420

gaggcggagc ggatcaagaa gtgcaggggc agggtgttcg cgct 464

<210> 5656
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h07b2

<400> 5656

ccgggacacg cggcgggaga ggaggatatt aagacagttt tgtggtgctg cccgcgaccc 60

ccacggagcg cacggccacc cagcggggcg cagggtgcgg gactcgcggc cgcgcaggct 120

catggacgac gcgcgcgcca aagccaagac cgggcgtcga cactgccggc cgccggctga 180

aagaaggcac ccgcgcgcgc ctacaagggc aacgacagag acactggctc ccaccgcggc 240

atagacagca gatgcagcgg aagacacgaa gtcaccagct cgaagctgcg cgcggaccac 300

caccatggca caggggggac cctggcgccc ccctaagagc gagacgccga cagggccgta 360

tggcag 366

<210> 5657
<211> 510
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h09b2

<400> 5657

tctcctcaca cgtccgcgga cgcgtgggcg gacgcgtggg cttataatca ttctttcgcc 60

cgtcgccgcc gccgctcccg ccgctagacc agctcgccag cagcaatggc ccggatcaag 120

gtgcacgagc tgaggggggaa gaacaaggcg gagctgcagg gccagctcaa ggacctcaag 180

gcggagctct ccctcctccg cgtcgccaag gtcaccggcg gcgcccccaa caagctctcc 240

aagatcaagg tggtgcgcac ctcgattgcg agggtgctca cggcgatctc gcagaagcag 300

aagtcggcgc tgagggaggc gtacaagaac aagcgtctcc cgctcgacct ccgacccaag 360

aagacccgcg ccatcccgag gcgtctcacc aagcaccagc tctctttgaa gacggagagg 420

gagaaaaagc gcgagatgta ctttcccatg aggaagtatg ctttcaaagc ccaggttagg 480

agcacatgtt ttacctgccc ggttttgctc 510

<210> 5658
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h10b2

<400> 5658

tcttccacac gtccgcccac gcgttcgccc acgcgtccgc ccacgcgttc gattttgga 60

accattctta attcatgagg ccaaacggcc taggccaata gtattaaatt gattttgta 120

gatttaggcg ggaaagaaca aaaaattggg aaagagactg taaatatctc ccagtatta 180

tagtacaata ctggatgcaa aactaccggg aatgccaaaa attaattctt gagttgt 237

<210> 5659
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h11b2

<400> 5659

tcttcctgac accaaagctc atcttcttct acgtgaaatt tttttgggtc ttctgatttg 60

gtggacgtct tgcaactgcg gatcaggctg cagctgcggc tcagactgca agtgcgggaa 120

gatgtaccct gatctgacgg agcagggcag cgccgccgcc gaggtcgccg ccgtggtcgt 180

cctcggcgtg gcgcctgaga acaaggcggg acagttcgag gtggccgccg ggcagtccgg 240

cgagggctgc agctgcggcg acaactgcaa gtgcaacccc tgcaactgtt aagct 295

<210> 5660
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002a02b1

<400> 5660

cgtccggggg aattcggcaa ttacacgacc acatgttagc ccttaaaaga gaagaagctc 60

aagtgcaagg aagattcaac aattgatcgg tttgaaatgc gaggcgatat ctgggcaagg 120

agaaggacat gcctgcggga taactctgcc tttcacttga tccagtggag gaggacagcg 180

gggcttcggc gagtacaagt gcagcagcca cgggaagcct catcgcagaa tgacagcaac 240

acgctcctta aggaactgta tgtcacgatg aagagtctcc tcgaagaatt gaaagtcaac 300

accaaggcag cgacggagtc atgccagctt atcgccaaat cttgtcaaga agttatcgag 360

gcctgcaaga tctctgcgac cagcacgggg acccgtattg tgaactgagg aaccgcatgt 420

agatgagtag ccgtgacttt acatgtagat gagt 454

<210> 5661
<211> 172
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002a03b1

<400> 5661

tttgtttttg tgtgtattcg gtggcgtatg cataatgtat attggcaagg tatacccata 60

catacagttt gtttgtacat gtgggtacgt tttcttttcc tttcattaaa cgggtttgct 120

atttctcaat agactgagaa ataggtatag ctcaatcgat gctatagcct tc 172

<210> 5662
<211> 535
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002a05b1

<400> 5662

tttggaactc tcgtcagtac ctgatactat tcctcctaga gcacaggtgc aaatcccagt 60

cgaggttaca aatcttcgcg cgagtagaga tgttgctgtt cttgatttct catataaaca 120

tggagctgca ctggtgaacg ctaaacttcg acttcctatt gtgttgcata aattcttgca 180

acctataact ctttcccctg aagatttttt cgcccattgg aaaacatgga atgttcagtc 240

actcaaggtt caagaagtgg ttagaggtgt aaaaccatta cctattcctg agatggctag 300

tcttctcttg agccttcacc tggcagatac tcctggactt gataccaacc cgaacaacat 360

ggtggcgtgt gctacattct tttcggagac aaccaatgcc gcgctttgtc tggtgagagt 420

tgaaacagat cctcaagaca gaagtcagct cccgctaaca gtcgcatcag gagatcaaaa 480

tctgacattc gagttgacgg agtacatcaa ggaacatctg atcgacattc cgagg 535

<210> 5663
<211> 522
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002a07b1

<400> 5663

tcttctgttt cacagtgtga ctttgaccgt cttaaattgt cgactgcgcc ctttatggaa 60

aggaacctag aatttatgat tgggtgcatg gatggtcttt catcagagca aaacaagttc 120

caatattact atcgcaacct aggaaggcaa cagtcacagc aacaggcatg gcttcaaaag 180

agaaggcaag agaacatgtc cagaaaggct gctggcgagg agccgttgcc agaagaagat 240

ccatccaacc ctatcttcaa gccgcttcct gagccatccc gcttagaggg ttatctcgta 300

accaatcaga tctcgagtta ctgcaaccat atcaatgggg ttgctggcca gagtttcaac 360

aggctatact tgatgaaggc gttgcaggaa gattaggtgc cgggtggcag ctgctgtgag 420

attttaactt aacactgtac cgcacctcaa ttttgcaatg tactccatgt gcactcgcac 480

attgcctatt ttgttttgcc caaatcagat agttaagatg ca 522

<210> 5664
<211> 482
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002a08b1

<400> 5664

ttttttcacgc gtccgcccac gcgtccgccc acgcgtccgc gccgaacaac tctcaccgga 60

acgcagcaaa ttccccagcc ttccctcgac ccagatccgg aaaatggccc gcacgaagca 120

gaccgtgcgc aagtcgaccg gcggcaaggc cccgcggaag cagctggcga ccaaggcggc 180

gcgcaagtcg gcgccggcga ccggcggcgt gaagaagccg caccgcttgc gccccgggac 240

cgtcgcgctc cgtgagatcc gcaagtacca gaagagcacc gagctgctca tccgcaagct 300

gtccttgcag cgcctcgtcc gggagatcgc gcaggacttc aagaccgacc tgcgcttcca 360

gagctacgtc gtgtccgccc tgcaggaggc cgacgaggtc tacctcgtgg ggctgttcga 420

ggacaccaac ctctgcgcca tccacgccaa gcgtgtcacc atcatgacca aggacatgca 480

gc 482

<210> 5665
<211> 505
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316002b01b1

<400> 5665

tgttattgtt ctatttattt gcttctgcac atttaggaat ggaaagaaga aggcgcctcc 60

tgttgaaaca cccaagcaaa ggacaccaga tgcagtatct gcagttgaat cacttcctcg 120

ccccacaagt actaggttcc ttgcatatga agaacttaaa gaagcaacaa acaactttga 180

ggcttcatgt gtgcttgggg aaggtggttt tggccgtgtc tttaagggga tactaagtga 240

tggcactgct gttgctatta agaagcttac tactgggggg caccaaggag ataaggagtt 300

tctagttgaa gtggagatgc tgagcagatt gcaccaccgc aatcttgtga aactcattgg 360

atactatagc aaccgtgaat tgtcacaaag ccttctttgc tatgagcttg tttctaatgg 420

aagcctagaa gcttggcttc atggctcatt aggcgctgac tgccccttgg atngnggacac 480

cagaatgaag atagcacttg atgct 505

<210> 5666
<211> 197
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002b02b1

<400> 5666

tatttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaggggg gggccttttt aggggtccaa ggtttccgtc cgggggctgg gaacgtaata 180

gtttttttt gggggcc 197

<210> 5667
<211> 242
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002b06b1

<400> 5667

ttctttacca agctatcgat atcctgcgtc ttgcaacttg ttctgtacta ctccgtttat 60

gatgttaagt cagatcttgt ggatttatag attttgagag atattgtgtt gcatgtttag 120

aaaatgaccc tttcccctct tttgaatcaa gtggttgcca tctaaaagac acgctacgac 180

atatggaaga acaactaaac caagatgtca actaagacag aaacaaaaga aaaactgaat 240

gg 242

<210> 5668
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002b08b1

<400> 5668

ttgtcagggg tttgaggctg tcatgcgtgt caggtgcagt caggggcttc aagttcaaga 60

ctattctggc aatttctgca agcgcgtccc tactgatatt gatttgcctg tgattgactc 120

tgacaaaacc ataatggttt cctttaagca tgatgataag tttcaggaga attcagaatg 180

tggttttcag tgtgcacttc tttacaccac ggtatatggg caaagaagga tacgagttat 240

aaatatttca cttccatgta caagcatgct cagcaacctt ttccgatgtg ctgatctgga 300

agcacagttt acgtatgttg ttaagcaagc tgcaaatggc attccatcaa gttcctatc 360

ccaagttagg gaccaagtaa caagtacatg catcaatatt ctccagtcct accgacaata 420

ttgtgcatct gtaagttctt ctggacagtt aattttcccg aggc 464

<210> 5669
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002c03b1

<400> 5669

ttcatcggct cctaccagca ccacgccagg caagaagaaa gccacgacac ctcctctact 60

gttccttatc cgtgtcccgt agctagccag caatctgcgc agcaagaaaa gaagggaggt 120

acttggatcg cttcttctgt ggagatggtg gcgcccatgg tgatcgcgtc cgcgggctc 180

gggatgctgg cgggcgtggc gatggcgaac cggacgacca gggacgggct gccggcggcg 240

tccagatggg acgcgcggcc acgttgctcc acgtgcagcg gcaccggccg ggaggagtgc 300

ctctgcagcc gttggtccga ccgcgacgtt ggctgcagga cgtgcttccg ctccggccgc 360

aagcggtgcc gcagctgcgg aggctctggc 390

<210> 5670
<211> 339
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002c04b1

<400> 5670

ttattacaat caaaaaagaa aagacaaaaa agggggactt tataccatat atatataaat 60

atctcatcga aagaaaaaaa ggatacagcg gggggccctt aatacggggc ggtcagcttg 120

aagggccatg catgaagtca cgagctggga agcttgctgt tgttttaaga tgtagacaaa 180

atgaaatgac gtgggcaatg aggaacaact tcttaattgg agaaactcag agaaaaccaa 240

aataaatggc cttgtagaag atcccacttt acccacgcgg gcatgcaacg aaaaggccct 300

cacatagcgc cctctaaaac aaatgcactg cccgaaggg 339

<210> 5671
<211> 433

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002c05b1

<400> 5671

agctggtacg cctgttggta tctggtctgg tatttctggg ttgactctac gcgtctgttt 60

tcgcgtttgt ccacgcgttc gtttacgcgt tcgtccacgc gttcgtccac gcgttcgtcc 120

acgcgtccgc ttttttttt ttttttttt ttttttttt ttttttttt tttttaga 180

ttggaattat tttgatccag aagctcttaa caggggccca acattgcacg ttagtgtcct 240

tgtaaggatg tttactttaa gcttcagttt tatgcagaat ttttttgaat tgattgattg 300

gtagagattt tattacatga taccatgtta cacaatttta cagggcacga ttggattgtg 360

gttggttgcc aaactgcagg ggttgtgatt ttaaatcaaa aaaataaaaa aaggggtggt 420

cggttttgag gat 433

<210> 5672
<211> 264
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002c08b1

<400> 5672

tcgtaagaag ggacggggca ggaggcagta gtatcatgct ctggatttct ttcaaaaaga 60

tcacaactgg gagtggtggg tggatatttt gatcgactcc tgttaagcca tgttacaact 120

gtgagtggtg ggtggtctaa gagtggcgag tagttttcaa gacaatgtgc gagccattgt 180

tggatccttt tactggcaca gaaccgcgaa ttacacttac ccacacaatc atggttgatg 240

agacaaatca aatctttgac cgtc 264

<210> 5673
<211> 504
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002c09b1

<400> 5673

tcgtttcttc tcgcccccct cgtctccttg ccaggacctc gcgcgcatct cgcccccccc 60

ccccctctca ctcgcccagg tctagggttc cggcgcccga ttcgggccga attggacggc 120

gccgcggcgg atcggaggag cgggggagag atgacgggga agaagcgcaa ggcggaggcg 180

gcgcggctgg acgagacgga ccgggccatg tacggcgcgt tccggggcgc cgccaactcg 240

ctctcgcagc tctacacgct cgccatgggc ggccagaagc tctccttcca ggccgccgag 300

cgccacgcca tggaaaagct gtatgaatgg atcttaagac agcatgaaaa tggtttgagg 360

ctgacagttg gtgatatagc ctcgcacgtc cagcatgaga ttcagtatgg aggcgacaat 420

ccgttggcct ctccaagatc acaatatgca agccaaagca ctcatggtac cgtgcatatg 480

cccaacacag gcaaccagca acca 504

<210> 5674
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002d02b1

<400> 5674

gggggggcata attaaaggga accgccgcga tctgccaagc agcaccgaag gaaggaacgg 60

gcctccaagc gaagaacacc agcgcccact tggcacagat tctaagggga ggaggccatc 120

caaatgccca acaggctgcc caagctggtg gaggaaacca acgcaaaaac cgcgatgaca 180

gaccgggagg gactacagaa gaactggagc gctgcgacgc acacgtacag agggagcgtgg 240

catgcgacag gccttatgcc ggcaatggct ctgcgaagac cggccggaga tcccctagatg 300

ctacacacca tcaagat 317

<210> 5675
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002d03b1

<400> 5675

tttttatgtc aagtgtcctt aggaagatga ggtctgctgg tggtggtgct ggtgacaaga 60

agaaatagaa cttggctagc tggtgaattt tatccggaag caaagtcctg tattaccagt 120

ccgtacctat agagctatgg ccattgtgtt gacactatct ttagcccgtg gtttctattt 180

tgagaagacc aatcttttta agatttttat acatgagtct ggtgcctttg tttgattact 240

tggtactctg ctgtttattc agttatgtag cttgtctggg ttttgtacct gcgcttgaca 300

cgtaatttac aactctatga ctggtaaa 328

<210> 5676
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002d04b1

<400> 5676

ttattcgcaa agtgcgggag attgttgagc agagctggac ggcagactaa taagctgagc 60

tcaccatgcg ttctcatgcg gtttctgtac caaaatgttt gtaactaaaa tggctgaact 120

ccatcgttac cacctgaaac agcaacttgc tttgttgcat catttggctg gacggctgga 180

gattgctctg tcatggcctg tgcctatact gtctgtatct tgaacacaaa cattttgtaa 240

cgtcttgtgt gggtttgtaa tgttctagta tcatatcata ttgattctg 289

<210> 5677
<211> 219
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002d05b1

<400> 5677

ttttgaccag accaggtaca aatactctgt cgaactgaga atttcctgag atggatgcat 60

ctaggtgaca aactgtaatt gatgtagcct tgcatctgga caaaattgta ttggactctg 120

aattgtccca gcttcatagt gcccctgtgc aaaatgcctg ttcacaaaga aaaaataaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca 219

<210> 5678
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002e01b1

<400> 5678

tggttagaca ccaaggaaca caaggaagga cggggccttt gttgaatgat tggtggatac 60

taaaggagcg taatcatatt gtacggtgcg caagaggggc gacaggttaa cacgatggag 120

gatcacgtca cgcacgattg gcctcaagtt cgatcgtttt gagagtgaaa ggaagtcaat 180

ttactgggca gaagattaaa gtgttcttga ggtataaacc cgggtttcac cgagatagag 240

tgaggagcat ttattctata tatgccctg 269

<210> 5679
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002e02b1

<400> 5679

cttgtattcc acaggctaca cctccaagtg agttcaccct gtttgattcg gtgggagctc 60

agcattgtcc gggcccggca agggaggcaa ggggccgggc aagggcggca tcgagctcca 120

ccggcaggtg gctctgtgac aacatccaca gcatcaccaa atcaactgat ccggcctctc 180

gcgcgcaggg gcggaacaga cagagcatct gctggctcat ttacgaggag acccgaagag 240

cgctcaagat ctgtctcaag aacgtcatac gagacggctg acactacagc ctagcacttg 300

ccgctgtatg accgttacac aacatggacg actggtacga cctcaagcga caggaactca 360

ctctctacgg at 372

<210> 5680
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002e09b1

<400> 5680

ctcgcagccc cggtggtggg aacgcgcgct cgtgctcgtc gtgcagggcg tctgcttcaa 60

cgcctacttc ctgggctgcc tcatctcccc caagttggcg caccgttgcc cttggtaccc 120

agaggaggag gccgtggagt cctatactga gtacctcaag gaccttcgag gccttccttg 180

atcgagaaca ccaccggtcc ggtcattggc gtcgactact ggcgccttct cgacgacgcc 240

aggctcaagg acgtcgtcac cgccgtgcgc gccgacgagg cgcatcaccg cgacgccaac 300

cactacgcat cggacattca ttaccaggga atgacgctga atcagacgcc tgcgccgttc 360

gggtactact gatcagctca atggaccata tatcgatgcc tgctcagtcc attgttggtg 420

cgtactacta ccactgtcgc cgatgactgg tgcgcgtgca gcctgatctg cggaaacgat 480

gtgtgtgtat gattctt 497

<210> 5681
<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002g03b1

<400> 5681

atgcgttctt tgcgtccgcc cacgcgtccg atttatacgt ctacaaatgt tacgtacgta 60

cgtaaataag cacacattcc ggcctgcatg tatccatgcg gctctgtgga gcgtgtaaat 120

gtatgcaaac atctttactt ttgttttgtt gttcaaaact tggacctagc c 171

<210> 5682
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002g07b1

<400> 5682

tcgtccacgc gtccgcgcct ctcgcccctt ccgtcccctt gccgccggag cgagcaatgg 60

acctcgacga cgacatggtg ccgtactccc cctccggcga ctcctcgccg tcgtcctccg 120

acctcgacac cgagtcgacg gggtctttct tccctgaccg gagcacgacg ctggggacgc 180

tgatgggcgt gtcgacgttc ggcggcgccg gtgtccagcg gcggctgact cgggcggcgc 240

cggggcagga gagcgagagg ccgacgcgtg cggcaacgga ggagcgagac gggcggcgcg 300

cgggcgggtg gcgacggagg aggcggctgc ggtgcggcag ctggtggcgg ctgtgccgcg 360

acgacgccag cgggccgtcg acgaggctgg gcgagttcct ggacatggag 410

<210> 5683
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002g08b1

<400> 5683

tctttgacgc gtggggctcg ctggggcaga accccactga ggcagagctt caggatatga 60

tcaatgaagt ggatgctgat ggcaatggaa cgattgactt tcctgagttc ctcaacctga 120

tggcgcgtaa gatgaaggac actgattccg aggaggagct taaggaggct ttcgcgtgtt 180

tgacaaggac cagaatggtt tcatctcggc agctgaactc cgccatgtca tgaccaacct 240

tggtgagacg ctgacagacg aggaggtgga tgagatgatc cgtgaggctg atgtcgatgg 300

tgacggtcag atcaattacg aagagtttgt gaaggtgatg atggccaagt gagctgtcat 360

actaagctag ttctatcttg atgttagcag ctagtctagc cttgaaaact gacagcagat 420

ggtactac 428

<210> 5684
<211> 483
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002g09b1

<400> 5684

tcgttcacgc gtccgcggac gcgtgggctc gcgcacgcgt cctacgcctt caacgactac 60

taccagaaga acggccaggc cagcagcgcg tgcgacttca gtggtgctgc caccattgtc 120

aaccaggcac catcaggccg gtgcgacccg agcccgagct ggtgtgtggc gaacgcggcg 180

gtgggcgccg cgcggctgca gaatgcactg gactacgcct gcggtcacgg cgcggactgc 240

acggacatcc aacccggagc acggtgcttc gatcccgaca ccaaggtcgc gcatgcgtct 300

ttcgcgttca atgactatta ccagcgccat ggccggggcg ccggaacgtg cgccttcgcc 360

ggtgccgcta ccattgtccg gcaggcacca aagataggca actgcgtgct gccgtaaggg 420

cctgaactga agaactgtgc caaagcgaag cttactacac gagattaagc ataattccgc 480

aga 483

<210> 5685
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002g12b1

<400> 5685

tcttttccgc gcattccatc caccgccgca ttccgagggg ttcgagctcg ccggagaggg 60

aagagagatg gccaggaagg gcggagagag gaagaaggcg gtgacccggt ccgtcaaggc 120

cggcctccag ttccccgtcg gccgcatcgg gcgcttactc aagaagggcc gctacgcgca 180

gcgcgtcggc tccggcgccc ccgtctacct cgccgccgtc ctcgagtacc tcgccgccga 240

ggtgctggag ctcgccggca acgccgccaa ggacaacaag aagagccgca tcgtgccgcg 300

ccacctgctc cttgccatcc gcaacgacca ggagctcggc aagctgctcg ccggcgttac 360

catcgcgcac ggcggcgtgc tgcccaacat caaccccgtg ctgctcccca agagggccct 420

tgagaaggcc gagaaggagg cccagtcgcc caag 454

<210> 5686
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h02b1

<400> 5686

gttttcagcg ccctccatgg cgccatggca ggatacagtg gcttcaccgt cgcgcccgtg 60

aacggcagac acgcttacat cccattctat agaatcaccg agaagcagaa caaagtcgtg 120

atcactgaca ggatgtgggc gagggtgctg tgctcgacga accagccctg cttcctgagc 180

cacgaggacg tggagaacat gaagcacgac gacgatgagc gccaccacct gcacaacacg 240

cagctcctcg atggctcacc ggcgaagtgc tcacccaact gtaacgggtc agctggagcc 300

gagtgagagg cacaaagctg ttgggatgga tatattgagc atgtgtaatt atagctattc 360

ttatttaacc ttctcttggg agtttttagc ttgccttgta gtagag 406

<210> 5687
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h04b1

<400> 5687

tgatacctct ttatcctagt atatgttttc tgtgtaacac tcgtcggtgc cgcaacactt 60

tgtgttcgac taagaagttt ttatcaagag ttgaacatca caataaaatg aaaatgtggt 120

gtaatgagac atggaaccgg gttagtttct gtgaaaaaac aagaaaccac cctcgaaaaa 180

ctcatgtgac gagtgattaa tactggcttg ctaggcttgg attatgatg 229

<210> 5688
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h06b1

<400> 5688

tttttcggtg actaggtggg aaggcgatat catggatttc aagcaacact tgaagaaaag 60

ggctggtctc tagatttcct gtcttttcct tctctcggct ctttggagat ctagacaacc 120

caaagttttg cctctgtatc agaaaagctt ccatcattta gcgcgacaag tacaagtact 180

attgtatcac ttaaaacata tcttctctac gctattttat aaccagacga tccgtattta 240

atttcatatc ttt 253

<210> 5689
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h07b1

<400> 5689

tcgttgacgc gtgggcagct ttctcctgct catcaacctt gttctagcta gctagctact 60

ccaggtgagc gagcttactt tctggagcac gaaacgcatg gcggtgtcgg cgctggcgat 120

cctgctcgcc tcgtgtgccc tggcggcggc gagcttagac acggagttcg acgtcacctg 180

gggtgacggg cgcggcacga tcctcaacaa cggccagctc ctcacgctgg ggctagataa 240

gatctccggc ttcgggttcc agtccaagca cgagtacctc tacagcagga tcgacatgca 300

gctcaagctc gtctacggca actgcgacgg caccgttacc gcatactacg taatgaaccc 360

aaca 364

<210> 5690
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h08b1

<400> 5690

tttagagacc caccgacgcc cgtacgattg gtcctactgc aattacacca cacaacggtg 60

ctccgctacg ctgcgctcgc tctgcccgca ccgtactgtt cacaaggggc gtgggcgccg 120

gtcgccgaca gtgaccggac cgagccgttc gtgcgagcac aggacgcggg gaggagatgc 180

cggctgatct ccggttctca gacgcgtcta gctccagcgg gaggaggagg cggcgtcatc 240

gatctcggcg ggggaaaggc gcgagcttgg gcttgcctga cttattgctg acggcggggg 300

cgaaggggag ggcagaggcg atgctgcggc tgtagtcgcc attcgcagtg gtgcct 356

<210> 5691
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h10b1

<400> 5691

tttttccgtg gtaatgctgt tgccgcagtg ctgttaataa gacagatata tccaggtttc 60

ctgtaaaacg taagagtatc attcagctgt tatgcatggc tctagctgat gaagtgttgt 120

ccgaggtctc tactcgtatg atgtcggagc ctgtaaacgc aagaaacacc ccttgaaaaa 180

cgcatgtgtt gtggtattaa tactggtttg ctaggcttgg attctcctg 229

<210> 5692
<211> 486
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h11b1

<400> 5692

tcgttatggg ctgcgaaaac attgtaccag gtgatccatt ctgctcgtgc gaacgcagct 60

cacaaccatg gactggatgc agataaactt attgcggaag aggcttttgt ggggaaagga 120

ctttatctca agagattgtc ttaccacgcc aaagggaggt gcggtgtcag ggagagacct 180

aggtgcaggc tgacggtggt ggtcagagaa gccacagccg aggaggaagc taagattgcg 240

aaactcaggg tcatgaacta caagaagctc accccgaagg agaagcagct catgccgtac 300

cggcttatcg aggtcagccc gaaatgggct cgtaaaagga aagaggagga ggaggaggct 360

ggtgcttcag cgtagtacaa gtttacgttt gcagcaaggt ctgtctttct tggccggcct 420

ggagccagag attagtagct gcatctgcag tcgtctggtc tatctgttga gacttactga 480

agaaca 486

<210> 5693
<211> 84
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316002h12b1

<400> 5693

tagctgcntt aaactaaaag aacaaaaata aatggaggac cattattaaa aaaattaaca 60

aaagaaaaac caaaaaaaat atat 84

<210> 5694
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003a02b1

<400> 5694

ttgtacgtcc cagccctccc tcgtcttata tctagggttc agggttcttg cggcggcggc 60

gcgacttcct ccccccctctt gcgaaggtct agggtttggc tgagtagaga agagagactt 120

ccccctcgtc cagtagggag ccgccatgag ccgatcgggg cagccgccgg atctgaagaa 180

gtacatggac aagaagctcc aaatcaagct gaatgcgaac cgtgttgtca ttggcacgct 240

tcgtggattt gatcagttca tgaatttggt ggtggacaac actgtggagg tcaatggaga 300

tgagaagacc gacataggga tgggtggttc tgagaggaaa tagtgttgtg atgattgaag 360

cccttgaacc aattgccagg tctcagtgat attttggc 398

<210> 5695

<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003a05b1

<400> 5695

tttagcaagt ggcatgtgtt ctgggtagac gagagggtcg tgcccaagga ccatgaggat 60

agcaactaca agctcgccct cgatgggttc ctctccaagg taccaattcc tgctggtcaa 120

gtgtatgcta tcaatgatgc cttatctgct gaaggagcgg cagaggacta tgaaactatc 180

ttgaagcaac ttgttaagaa tggcgtcctt gcaatgtcaa agacaactgg gtttcccagg 240

tttgatctcc agcttcttgg catgggccct gacggtcaca tcgcctctct cttcccaggc 300

catcctcttg ttaaagagaa caagaagtgg gtcacccaca tcttggactc tccaaagccg 360

ccaccacaga ggatcacatt cacgtttccg gtgatcaact cctccgcata tgtcgccatg 420

gtggtaactg gggctgggaa aggccgtgca gtgcagaagg cgatttctga caagaagact 480

tctga 485

<210> 5696
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003a06b1

<400> 5696

actcaacgac atcatccagt ccatcatcaa catggacgct gatgtgatca cccttgagaa 60

ctcgcggtct gacgagaagc ttctctccgt cttccgcgag ggtgtggtgc acggtgcacg 120

cattggcccg ggtgtgctcg acagttcact cccccaggat cccgtgcaag gaggagatcg 180

ctcgccgcgt gaccaagatg cttgcggggc tggacagatc gaccctgcga acagaccctg 240

actgcggatt gaagacccga cagtccgctg aggggaagct tgagctcacc aacatggttg 300

aggtcgccca gcagatccga gccccgttcg caacggccca gtccgccttg cttggtttgc 360

gctccccac 369

<210> 5697
<211> 318
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003a08b1

<400> 5697

tactgccgat atctcatggc ccttcatcac ctgagacctt gctgcaggat gctgcaaaag 60

tcatcaaggc cagaattgcg acgaacccta actcgttgaa cttcaacgtc atggttcttt 120

caaaacagtg aatcggtgat gtaaggtgga atggataggc ttggtctttt ccattctcat 180

gggctggtgc ctgatagtca gcatagcccg tcggaaaaac agagacttgt tgcctaaagt 240

aaactgtgct ctttgtgcaa aagttatgtc tttgtcttct ggcttttgta tcagaaataa 300

aaaaggagta tttagttg 318

<210> 5698
<211> 572
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003a11b1

<400> 5698

atctggggac ttgggggtcg atcgatcgga ggcggaagtg aaggaggagg ggcggcggga 60

tgacgcgggg gaagcagaag atcgacgcgc agcggaagag cgcggagaag aaccagaagt 120

ccaaggggtc gcagctcgag gcccgcgccg tcgggctcaa ggtcgtctgc cccatctgca 180

aggcgcaact ggccaacgag aagcagttga ttgatcacta tggatcaaag catcccaagg 240

agaaacctcc aggtccatca aatgcagagt gactgatgcg aagtggaagc atgagctata 300

ctttgcctgt ttctgagggt gttcaatctg ctccacactt ggacgacttg agcctcagct 360

ctaccctatg taatgcatgc atttcctctt gttccaggca agagcctttg atgaccatgt 420

atttgccttc tatgagtatc tatgtctaac tgtcaacata cctttaaact gtatgtggtg 480

caatctttgg ataagagaat gctaaacttt tttcgttatg tcattctcct gtacgggctg 540

tgtctaagag ccaaaaatga tgttttcttg tc 572

<210> 5699
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003b03b1

<400> 5699

tgctactcgt gggcgggctc cctgtcggcc cggggattta cagtgatctg gctgccaggg 60

cgcctgtgag gacgcctctt tctcctccat cctgagcatg cggttcaccg tcggtttcgc 120

tgcgcaggct ggttcatgat atggccacat tgttggagga tgaaggtagc cattttagtt 180

cccatcccct gtgtgtgctt gtacacttca gagcacctca atttccaggc cacatctgct 240

gttcatttgc actcttttaa taatagcata tatctctatt gacagagttg gctagtct 298

<210> 5700
<211> 326
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003b05b1

<400> 5700

ttttccacgc gtccgcccac gcgtccgccc acgcgtccgc ccacgcgtcc gcccaaaccc 60

taccccgccg ccgccgtcgc cgccgcagcg cgcggaggcg acctcccacc gccgccaaga 120

tgcagatctt cgtgaagacc ctgacgggca agaccatcac gctggaggtg gagtcctcgg 180

acaccatcga caacgtcaag gccaagatcc aggacaagga gggcatcccg ccggaccagc 240

agcgcctcat cttcgccggt aagcagctcg aggacgggcc gaccctcggc cactacaaca 300

tccagaagga gtccaccctc cacctg 326

<210> 5701
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003b08b1

<400> 5701

ttttctacta tggaagcgag ctgcctctag cacagggaat taactttggc tagtttggtg 60

ctgaaggact gccagtgaaa cgtcgtgctg cagcatgggg attggggata atgtgttgag 120

atatctggag cgtgcagcca tcatcttcag gaaattctct gtgtcgatca ttgcacccaa 180

attgcgacgc tgctgctgag tacatataat aagagatgtg ttgatctcat gtatgcattg 240

ttcatgcctt ttggcatgtt tagccatctg tgccctggac ctagtctatt aataaactgg 300

aaaaatagca tatcttccgg tgagagtaac attttacgca tgctaccttg agatcggact 360

gctcgaaata aaaggagatc gaagccttca ggccgttgtg caaaaaaaaa aaaaaaaggg 420

cggc 424

<210> 5702
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003b12b1

<400> 5702

tttctggaga atattgattg atgattgtga tacttctaag tttggaattt gggatttgcg 60

aaaagtgtta ggaataatac cacaggcacc ggtcctcttt tcaggtacta ttcgatttaa 120

tctggatcct ttcagcgagc ataatgatgc ggatctatgg gaggctcttg aaagggctca 180

tctaaaagat gtcataagga ggaatgctct agggctagat gctgaggttt ctgaggccgg 240

tgaaaatttt agcgttggac agcggcagct gctgagttta gctcgtgcat tgctaccaag 300

ggcaaagata cttgttcttg atgaggcaac agcagcagtt gatgttcgaa ctgatgctct 360

tatacagaag acaatcagag aagaattcaa gagttgtaca atgcttatca tcgctcaccg 420

cttgaacact tgtatcgact gtgacaggct gcttattct 459

<210> 5703
<211> 294
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003c01b1

<400> 5703

tcgtgatctg cgccaataat ttactggcac aaatcttctt gttccatttc tttgacataa 60

aaaaacaaaa acatgtacat taccagtgat gtatttgtgt gtacatgttc agcagttctc 120

ctgtgcaaac gcgattgtac tgctataaca tgcatgtttg ggttcggttg tgatagtaat 180

aacattgaaa agagcagttt taagatgaca atgcagttgt tgcaaaaaaa aaaatgaaac 240

atcaaaaaaa aaaaaaatga cagatgagct agatgacacg agggcctagc ttgg 294

<210> 5704
<211> 366
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316003c04b1

<400> 5704

tttttgacgc gtggggaaga acttccactt ccctagcttt gatagaaaac aaacaaggaa 60

aacagagaag ctcacaccat ggcaaccaat gggtactcca atggcggcag caccaaggga 120

aagcccatca aatgcaaagc ggcggtggcg tggggtcccg gcgagccgct ggtgatgcag 180

gaggtggagg tggcgccgcc ggcgcacatg gaggtgcgcg tcaaggtcct ctacacctcc 240

atctgccaca ccgacctcag cttctggaga ggagagaacg agcgtcaacg caggttccct 300

cgcatccttg gacacgaggc nagccgagtg gtggagagcg tgggtgaaag cgttgaggac 360

cttgcg 366

<210> 5705
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003c05b1

<400> 5705

tcttcctttt ccacccgcca tctctccagc ctccgccgac gcccgacgcc atggggcagg 60

cctgggcgtc tctgcaagag aagctccaag ggcggcactg gaaggagagg caggtgcgga 120

agatcaccga caaggtgttc gaccggctca ccgaggacac ccagaagccc gagaaggacg 180

ccctcaagtt cgaggaggtc tacatcgccg tcctctgcgt ctacaatgac atcaacaagt 240

acttgccagg gccgcactac gacccccccgt ccaaggagag gctcaaggaa ctcatgagag 300

agtttgacat cgacatgaac ggtctcctgg accgcgagga gttcgcggag ttcatccgga 360

agctgaccgc ccagtcactc tgcgcg 386

<210> 5706
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003d02b1

<400> 5706

tttttcacgc gtccgctcct caaggcctag gagatggccg ccaagtaccg cgccaccggc 60

cactctccca agaaagtcat gggatgcttc ggggcctgaa gtaaaaacgt tcctagttca 120

caaatggagc aagagtgaat gaagtgttca tccgtggttg cttgcttgct tccttctttc 180

tttcatccct cccaagtgtg tagtgtgcct tgtgtgtaaa gtctgccgtc tctgtatata 240

cacattgctc ccaggacagg tgctcggttg tgtacatctt tgatgcttga caagcaacat 300

tcttatgtgt agttaagaaa gtcacatttg ttattactgt tgacgttaag cagtcgtttt 360

ttggtctt 368

<210> 5707
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003d04b1

<400> 5707

tttttgcggc cattggtgcc atgctgcgtg cggtctggag aggaacttga tcagaccagg 60

cccgacactc aaggggccga tagggacgac tgagatgcag ttccagtgtc ttggttgcag 120

ccattcttct gagatgtttg gatttgttaa ggaggtgttc aattgctgcg cagagaactg 180

gaatgctgag acgctgatga aagagctaga tgttgtcagc aagtccaaag gcatattggc 240

agcaaatcag gcgagccaat ctacgattcc ccttctatct ccggccatca gtccacccaa 300

atccttcaat ttcaatgcca gcacctccat tctcgactca cagattgatg cgctcaagac 360

cagcccaaag tccctctcta ttgaaccctg ttttg 395

<210> 5708
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003d12b1

<400> 5708

tttttgctag gatgaattta ggaatggttg ccatttcatg gtacagttga gctgatgttg 60

agtatctgtt tatgtgtaac ggttcatttc ctccttttct ttctgcaaca tttcgtgaac 120

ttgcttatac aaagattcat cacataggcc tttagcttga ttgttccgcc atgagaacca 180

gcatgacttt ggatatatgt ttctgcaggt ttcagaatgt atccaagatt gcagggaagt 240

taattacacc atctgtggaa gatgggttgt ggaagatgga cattgcccct caggtaattt 300

cactttgtcc tagattaata acagattact aatttatttg tttaaacagg gcaggttatt 360

tacgggagta ttttctatgc agaaactttt agaattaact ttgaccattt actattgact 420

tgctaaatta catgttggca ggactattcc tgcagcctag tataattgct ctgccaattt 480

ccaaccaaa 489

<210> 5709
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003e04b1

<400> 5709

tcccacgcgt gcgtccacgc gtacgaccac gcgtccgtcc acgcgtccga aaaagaaaag 60

aaaaaaaaaa aaaaaaaatg aaatatgctt atgttctatg agggaggaaa aatggtgtag 120

caaatgatca caaaagtcac agtggataga agcaatgata tcaataaagg aatgaaacaa 180

cggaacaaga aatagaaata aaatgtagca tctcaatggg ttggcagaat attgttgaat 240

gtatagaaaa ctgctgcgaa aatgagcgca tgtatagtaa ctggttgg 288

<210> 5710
<211> 374
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003e05b1

<400> 5710

ttgtgcagag agagctctgt ttctgtggaa caacgatcat attgagggtt taatcaaaca 60

aaacagcaag gtgttactgc ccataatcct tccttcgtta gaacgaaata caaaaggtca 120

ttggaatcag gcagtgcaaa gcttgagtct taatgttcgc aaaatattct tggaccatga 180

ccctgtactc tttgaggggt gcctgaagaa gtttcaggac gatgaagctc aagaagatgc 240

gatgcgatca aaacgtgatg ccacatggaa gcgcctagag gaaattgcct cgtcaaatcc 300

acaagcaggg aggccacagg caatagctca tcagcagagt tcttctacct aaccttctgg 360

ctgacttgca tatg 374

<210> 5711
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003e06b1

<400> 5711

ttgtgccggc cgagggcccg cgtacggcgc gctggcgtga tcgctcgatc caatcggcgg 60

cccgtgcctc cctccggcgg tcaactcgag cccggctcgg ccgcaggggc gtggcggtaa 120

aatcgcgctg cgattttgcg attgatgaat cgaaatccat ggtggtggtg gtgcgcgggt 180

ggtggcggtc gattattttt ctcttgttct ttctggcgtg aaggcgaggg gtcggagcgt 240

cggctcggac cggacggtgc gcatttccca cccggcccct cgctgtttct ccttatcgcg 300

agacaccccc tagcagtgtt cctagctcta gtttccgttg gttcccctat gtttgttctg 360

ggtaagacga tgataagatt tgacagaaat tgaagagtaa aa 402

<210> 5712
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003e07b1

<400> 5712

tgttcgaccg ctgcatgcag gcgaggccta gctagctagt gtcactaacc aagcagagca 60

ctaaccagtc tcacaccggc ggccagccat ggcgctcgcg tccctcccca aggtggtgct 120

cggctccttc gccttcgcca tcttctggat gatggccgtg ttcccgtcgg tgcccttcct 180

gcccatcggc cggacggcgg gctcgctgct ctccgccgtg ctcatgatcg tcttccacgt 240

gatcagcccc gacgacgcct acgcctccat cgacctcccc atcctcggcc tgctcttctc 300

caccatggtc gtcggcggct acctcaagaa cgccggcatg ttcaagcacc tcggcacgct 360

cctcgcctgg aagagcc 377

<210> 5713
<211> 372
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316003e10b1

<400> 5713

tttctgtgaa agattatgaa tcaaagaagg cgaagctggg agacagccct gcagagaagg 60

ctgccgaagc atgagcatga tatatgcttc tgttctatga gggtgggaaa tggtgtgcaa 120

tgttcacaaa gtccagtgtt gtagcatgta tcataaggat gaacacgaac agtttgaaat 180

aaatgtgctc tcatgtttgg agaagttgtt catgtatagc agctgctacg aaaatttgtg 240

catgtatagc aactgcttgg aagtcgtaat gtacaatttg tcatttgccc gttccaaaaa 300

acattcggta ctatattgct ggttattttg gttganaaaa annttntana aaaaaataat 360

aaataaaatt tg 372

<210> 5714
<211> 355
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f01b1

<400> 5714

tttgtttagt catggcatcc tccaagagca gccttgcaat gttcgcactg gtcatagtca 60

tggccgtggt ggccggcgtc tcggcgcaga acaccccgca ggacttcgtc aacctgcaca 120

accgcgcccg cgcggcggac ggcgtcggcc ctgtgacgtg ggacaacagc gtggccaggt 180

tcgcgcagga ctacgcgaac aagcgcgccg ccgactgccg gctgcagcac tccggcgggc 240

cgttcggcga gaacatcttc tgggggtccg ggcagtcgtg gacggccgcg aacgccgtga 300

agtcgtgggt ggacgagaag cggaactacc acctcaacag caacacctgc gatgc 355

<210> 5715
<211> 264
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f02b1

<400> 5715

tgttctaccg tacgctccca caatgagatg accaattggt ttagcatcaa cctgattctt 60

gctgagtgag gctcctcttc tcatactctg acctcggagg atgtcatgtt ctgggatcgc 120

aatctgacca gtcagtatgc ggcgtatagg acactagaag ctatccctct tgcggggagt 180

attgatttct ccgtcgacag tccactcggc gttcatgcga aattctaaag ctgattgtga 240

agatccgagt ctgattttca aggg 264

<210> 5716
<211> 270
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316003f03b1

<400> 5716

actccacgcg tccgggcgga gaccccgaga agttcaagga gctggcacaa gcctatgagg 60

tttcgagtga ccctgagaag cgtgagatat atgatcagta tggcgaagat gctctcaagg 120

aaggaatggg tggaggaggt ggtggtggag ctnacccatt cgacatattt tcatcataaa 180

tagggccctt ttttggaggt ggtggtggtg gcagcagctg gggctgaagg caatggaggt 240

gataggattt tttccatcca ctaaattctt 270

<210> 5717
<211> 354
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f05b1

<400> 5717

ttgtacaaca tggcacttca ttccaccagt agattaaaca tagtagtgta gtagtggtac 60

acaataatgt caacaatctg gtgcaaactt gcagagcaag tgccgctgtt gaatctgtaa 120

aggatgcttc tgatcaaatc cagtttgtca ctaggcaaat tagatacgaa catgtgattg 180

gtcctggaac tttgtaggtt gttctgccca tggctacgcg cagatattgc cgaataaaaa 240

tgccaagatt gcaagcatgt gttggtttgg catacaaaaa aaaaccaaac ctggaacaaa 300

aaaaaaatat taaaaattat atacctaata aactcttata tttaccaaaa ttaa 354

<210> 5718
<211> 281
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f06b1

<400> 5718

caaacacaag caaccttgca aatttatttt tagggaacct taagaacaat tttaaccttg 60

gatacccact ctgtgtccct aagacaggga tttaacacct ggtacacgtt acccaataac 120

cggacaatag cactaaaccg gtggggcccc aagtcgactt tttttacgcc aatacaagtg 180

cccatgttcc ccgggtacgt accgggggggg aaacttcccg gagacgagtg gctaatatcc 240

gggggggttc tttgcacggg gggcggggaa aaatgtccgg g 281

<210> 5719
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f07b1

<400> 5719

tttcgttcag ttatcgcagg acaatacaac tcgaatatga cattactatt tggtttcttt 60

tcatggttgg gagttttcct tgcaattgct ggactagtta tgttttatag atgtagcagg 120

aaagatcctg gttacatcaa caagaataca agagactcgc aaactcaaag agatgatgaa 180

cctttgttga agaggggtct agataaccca gaacttctgg ctggcaattg gtctcaacta 240

tgtattactt gcaaaattgt gaggcccata cgctcaaaac actgctctac atgtgatcgc 300

tgtgttgagc aatttgatca tcactgccct tgggtttcaa attgcatcgg aaagaagaac 360

aaatggga 368

<210> 5720
<211> 87
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003g03b1

<400> 5720

tcgtccacgc gtccgcgaaa atgtaaggat gcatggcaaa atagccttgc atgttgttcc 60

atcaatttaa gatcatataa tggtgtg 87

<210> 5721
<211> 151
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003g05b1

<400> 5721

ttttaatata gaagaactct aaattattat gccatggatg gaacatgtca ttaatctggt 60

ctttggttat tcggtctgac aaaagaattg gatgtaagtg aattttgtat caggaaggca 120

aacattacat tgcgtgtcgt tttcatgatg t 151

<210> 5722
<211> 259
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003g06b1

<400> 5722

tcgtccacgc gtccgagaag atcgatcgat cgatctcgga gcctggttga atccacccac 60

cgccactcga tccaatcaca tacagcgagg aaagattaaa ccgccgccgc cgccgcgatg 120

aagttgcaga cggaggccgc cgccgccgcc gggggggagg ggaggctgat gatccggcag 180

gtgtgggcga acaacgtgga gtcggagttc caggcgatcc ggcaggtggc ggagcggttc 240

ccgtacgtgt ccattgaca 259

<210> 5723
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003g07b1

<400> 5723

cttcgattcc ggcttctcgt gaagaagctg ttcaatctgc cacaggattt cctgacaaaa 60

agggacgcgt gggctgggac cttcgaaggt gtcgtgcaaa ccagaactga accgaggaca 120

gactgcccag agcaactccc gacgccgacg aggatccggc agacggaggc gaacgaggag 180

gcgaagctga gctcgttcca gcaggagatc gtgcagctgg cggcggtgct gaacggcgac 240

caccagctaa gcagcctgca ggagaggatc agggagagga tgaacgtgag ggaaggcacc 300

tcctacatga ggagc 315

<210> 5724
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003g08b1

<400> 5724

tttgcctctc tctccatccc gacctctcgt ggccgccgcg aagaaaagga gcttatcatg 60

gcttcaaaac gtatcctgaa ggaactcaag gacttgcaga aagatcctcc gacatcatgc 120

agtgcaggtc cttctggcga ggatatgttc cattggcagg caaccattat gggtcctcct 180

gatagtccct atgctggagg tgttttctta gtgaatatcc atttcccccc ggactacccc 240

ttcaagcctc cgaaggtatc gttcaagaca aaggtcttcc atccgaacat caatagcaat 300

ggaagcatat gcctcgacat tctgaaggag caatggagtc ctgctttgac aatctctaag 360

gttctgcttt caatctg 377

<210> 5725
<211> 287
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003h01b1

<400> 5725

ggctcagaga agaagaaact ccaagcctgc gtggcgacga tgaagctggt tcgaccagat 60

tagtacagcc agcagtgtgc gatgtcaacc accatgatga atctgagctc ggcgcggttc 120

gttgcgagtt gagacgggat ctacaaactg aatctgtctc cccgttgaag accctctctg 180

ttaaaagact cacggaagaa acaaaatggt actgctaatt aggactccct ctgtaaacta 240

atataagatc ttttagagta ctatcgagaa acatttctgt ttcaaaa 287

<210> 5726
<211> 261
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003h02b1

<400> 5726

ttgtctacct gagctcacct tttacttcac gtgttccttc gtgtcagctt atagatcagc 60

tcaatctccg aggacttgtt caaggagtgc acgaccaggg tccaggccag gcacctagct 120

acggacgtag ctagcgaaga gccacgtcga gcgcgactag cgcgcgggat tgtgttccaa 180

cggcaagtcc aaccggaaga ccaacgccga cgccgcggtc accaacgggg acagcaacgg 240

cgggcccgcc aagatgtacc a 261

<210> 5727
<211> 413
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316003h06b1

<400> 5727

ttctcacgcg tccggttttt gtgggtgtgg tgctgcttat catcttgata tcaggacttt 60

gctgcatgat ggggatcgat accccgtcaa ggtttgaggc tccccaggat taaacttggt 120

ctgatcttga agcaaacccg atgtggatgg ccagtgtttg ttaccctgcg cagtggatat 180

agttagcttc ctcttcaaag gtgccttgct tgtgtatttt actaagccaa acttctgttt 240

agtgatcaat tttttgatgt actattgcat tcccaaaccc acggagatct gagcctttgc 300

aactactaca tngtgcaggt ttatgttgta ctatcaaacc agaattgttt cagttttcct 360

tgtgatagcc tggatttcag gaagccataa gatgatggca ctaaatgtca tct 413

<210> 5728
<211> 300
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003h07b1

<400> 5728

ttctgatcat ccccgatacc aaagctcatc ttcttctttg aaatcttttt gggttcacag 60

atttggagga tgtcttgcaa ctgtggatcc ggttgcagct gcggctcaga ctgcaagtgc 120

gggaagatgt accctgatct gacggagcag ggcagcgccg ccgcccaggt cgccgccgtg 180

gtcgttctcg gcgtggcgcc tgagaacaag gcggggcagt tcgaggtggc cgccgggcag 240

tccggcgagg gctgcagctg cggcgacaac tgcaagtgca acccctgcaa ctgttaagct 300

<210> 5729
<211> 250
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003h09b1

<400> 5729

tgatcgctca cacgtgcggc cactcgtcgg cgggggcgta tttgtaaatg atccggcggt 60

tcaacgagta aagaggaaaa gaagctggtc tccgccacca aggagggcca agaagcacgc 120

tgacagcacc ggaatagatg aagaggaatg cagaactaaa gaggaagtcc gaggggctat 180

ccaaggtgat caaggacgcg ctggccgaca ggtatgcgaa ggtgagcgac tcaaaaagaa 240

ttgactattc 250

<210> 5730
<211> 474
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316003h10b1

<400> 5730

tttttctatg aggtgctgta catggttgac gccattgatg agtactccat tggccagctc 60

aaggagtttg agggaaagaa gctggtctcc gccaccaagg agggcctgaa gcttgatgac 120

agcgaggaag agaagaagag gaaggaggag ctcaaggaga agttcgaggg gctctgcaag 180

gtgatcaagg aggtgctggg cgacagggtt gagaaggtga tcgtctctga ccgcgtcgtc 240

gactcaccgt gctgcctcgt caccggcgag tacggctgga ccgccaacat ggagaggatc 300

atgaaggccc aggccctgag ggacacgagc atgggcggct acatgtcgag caagaagacg 360

atggagatca acccagagaa cgccatcatg gaggagctgc gccagcgcgc cgacgtggac 420

aagaacgaca ngtctgtcaa ggacctggtg atgctgctgt tcgagacctc cctg 474

<210> 5731
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003h11b1

<400> 5731

tcgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaac aacaagaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaagg gggggccgtt ttattggacc aacccttatt accccggcgt tgcagcgaaa 180

tatttttttt ttggtggccc caaaataaat ttaattggcc ggggtttaaa aacaacgggc 240

tggggaaaac aatggtgtga cccaccaaaa ttgttttcaa gaaaaacccc ctttttacgg 300

cgggtggaaa taaaaaaagg ggggccccca aggcccttcc caacaaatgg ccaacctaaa 360

tgggaaaggg aacccccccc tctcgggggc cataaagcgg gggggggggg ggggtt 416

<210> 5732
<211> 294
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004a11b1

<400> 5732

tgatcgccgg ccggcggctg gttgatttgg tggcttaatt actttggtta atctgttctc 60

tgcactgtgt gcgtgacgtg gagtgctctg ccatttcgta cctttttttg cttcctattc 120

cacattacat tactacttgt gttgatatat gtactggtgt gttagtttac tcagggctgt 180

gagattgtac gagcagcaat gttatgtgtt tttcctgcag attaactaat acatttgtct 240

tgtaaaaaaa aaatcttaaa aaggagcctg acgacaccag gccttatctt attg 294

<210> 5733
<211> 508
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316004b02b1

<400> 5733

tttgtcacgc gttcggctca cacacacaca gaggcggtgt caatccccca gacgaggcga 60

caccggacca agaagaggcg gacggcggcg atgggcggcg gcggaggcgc gcacggcggc 120

acgacctaca agggctacac catcccccac aacaagcgct ggcacaccat cgccggcaag 180

ggcctctgcg ccaccatgtg gttttggatt ttctacaggg ctaagcagga tggcgctgtg 240

ctcttgggta tgcgtcatcc ttgggatggc catgatgatc acgcgcatgg tcatggacat 300

gcacacgagc atgaggcttc gtcgtcgtaa tcgccgtccc attgagctcg acgctgaatg 360

cggctgacag agaccctgac gcgtngcatg tttcgacgca agtctctgct taataaaaac 420

aatcacaact atcattattc acccctgttg ttngcatgta ttttttttta gcacacaaac 480

tgggccttgt gtgtattttg ttttgagc 508

<210> 5734
<211> 553
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004b08b1

<400> 5734

tggtggcagt actacaagcg agtgacacag gttcttgcac cgatcagatc caacttctgc 60

gcaagatgct ggacaagctg tgggacgacg tggtggccgg gcctcgcccg gagacgggcc 120

tcgacaagct ccgccgcgcc gccgccaccc aacccctcgc catcaacaca gctgcagggg 180

aggcgattaa gcagtcgccg tcgatgccga cgaccccgac cacgccggtg acgccgtcgt 240

cgtcgacgcc gccgcgtggc ggcagcgtgt ggcggagcgt tttccacccc gggagcaacc 300

tggccaccaa aagcctcgga gccaacctct tcgaccgtcc gcagcccaac tcccccaccg 360

tctacgactg gctttacagc gacgagacca ggaccaggag caaccaccgc taaataagag 420

ccgacggcca gagaattgaa gacaggaagt tctgcgacgc cgccatgttt gctgctcttc 480

tggttatcta atcctgcata gcgtacgttg ctgcctgagg ctgcatgtag tttggctgga 540

gcttcgtact act 553

<210> 5735
<211> 168
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004b12b1

<400> 5735

ttgtgccgcg aaccaaacgc acccttggtt gcagttgcaa agagctagca catcacgtat 60

gtatgtatgt acctgcagaa ctctctgaat caccccgagt gagagaacct atgttcgact 120

gagccgtttt attcagagtt gctgccagtg ctggttttca gagtgtcg 168

<210> 5736
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004c03b1

<400> 5736

ttctttcacc ccaacccccc ctctcgcggc gcggcacggc agagaggagt cggcggagat 60

gtcgggcgtg acggcggacg aggacaagaa gcccgcgggc gacggcggag gcgcccacat 120

caacctcaag gtcaaggggc aggatggcaa tgaggttttc ttccgcatca agagatccac 180

acagctgaag aagctgatga acgcctactg cgaccgtcag tctgtggatc tcaactccat 240

tgctttcctt tttgatggtc gtaggctccg tggtgagcag acccctgatg agcttgagat 300

ggaggaaggc gacgagattg acgccatgct tcaccagacc ggaggggggct ctcctcgccc 360

ttagaaggag cttgctgcag cctgggctgt ctatgtcgta tgctaccttt agaactaga 419

<210> 5737
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004c10b1

<400> 5737

tttcgtgtat gatggtattc tccgcagcat cctgctgagc ccgacgccgc agaacttgtt 60

gcgggctgat gtcaatcttc ttgattaccg tggcaagcaa aacagagatg cagctgcggt 120

tcgccagagg ttttgtgaat tactccaagg cttcatccac gtcaagcaga tcaaattgaa 180

tatccgtctt cggaaaggtt tcaatgttac cagccacggc gttcttcttc cagtcctact 240

caacatcgag tgcattgagc ttggtctcgt ctactcacca agttgcaagg aagcggcggc 300

aatgttgatt gcggagctac ttacctgctg tcctaagctc cgtgatcttc ggttcaacct 360

tatcaccagt tttgaagagg atggtcgccg ctctgaggga tctggaaatt ggccgacagt 420

gtgtctagag aaggatttca aggagtctgt ccgccgttca agcgccgtaa atgcagctga 480

tgtgcagc 488

<210> 5738
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004c12b1

<400> 5738

tttggaggag tacacgttcc aagagatcat cgccaagctt gggccgatcc caagtacgta 60

ttcggcggtt catcttcccg cctatctgct cgagaaggct gatcagtaca gatatcttct 120

tcctggcaac tgcatgagag aaagtgggta gcctccgctg tttgcatcaa gatgtgatgc 180

ccccttgggg aagagcgtgg cttagcggtt gtatttgata ccagtggctg gctgacctag 240

ttggatggcg gctgggttgg gttcatgatt ttgtaccatg taattcaaaa caatggaagg 300

agggcctgac agcatagcgc atgctccatc ggccgctgtg tgcttgtttt atttttggaa 360

gaggagctta gccacctgag tctctggttg attcattgct tccatgattg atttatgaac 420

tcagaaaatt attgtagatt 440

<210> 5739
<211> 519
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316004d01b1

<400> 5739

tgagaatata aagaggtcaa acgaaggggc ggcgaccgaa gcttcagagg gcactgggtt 60

ctaggtaaca ccgaggaaga tgactcggtt gatctcttgc atcctgacag ctctgccagg 120

agttcagaat ctaggccttc tggtgtaatg gaggtgcagc ttgagcctct caccagatga 180

gtagtagaat agcgtagatc aatctgtatc tcccagtgtc agatacacac acacacacac 240

accaagtnct gttttcagtc atacaacaga aacagatggt gtccacaagc acggtgactt 300

tccgctcaga aagaaaattg aatttctcat gcttgtttct tctaccatgg cagaatggta 360

ccaggctaca taggatcttc aaattatgcc tttgattcct tgcgtcacac ttgtcagatt 420

gtatagtgta cattttggtt tttcacaata gacaggcaca atttgttaca ttgtccccaa 480

gtaatttctt tncccatcag attttgagag agagagaga 519

<210> 5740
<211> 223
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004d06b1

<400> 5740

tgccacgcgt gcggaatcgt ttgagtgggc gttttctttg ccctgctctc cctcaagcca 60

acccacaaag gtgggaataa tggtcggcca aggcgaccga cgtgggtcac tcgggggcc 120

gcccggtgga ttacgatgaa gatgaatcgt caagatactg ttccatcttg ggtgcggata 180

ttgcagtatt tcggacgata atgctaatga agctgcttat gta 223

<210> 5741
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004d07b1

<400> 5741

tcccacgcgt ccgcggacgc gtgggcgagg atttttgaca gctttgtgct gacccaagag 60

caaaagctgc tgtcttggct gacatggatt ctattggaaa ggaagcacag ctaagaggtt 120

ttgaattcgc caaagctgtt actcttgttg ctgaaccatt cacagtagaa aatggtctcc 180

tcacccccac gttcaaggtc aaaagaccgc aagctaaggc ctatttcgcg aaagaactcg 240

cagatatgta tgcacagctg cgtgacgccg aatcagctag gcagaagttg taattaatcg 300

agaaatgttc aggagtaagg ttcaaaccaa tacaggacag gttcacacaa cggagtaagg 360

atttctcgtt tgctccatga gcaggaatac ctttcagccg tcaacagtca ggagtggtgc 420

tgggtgtggg tatctcttat t 441

<210> 5742
<211> 257
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004d09b1

<400> 5742

tttctggtgg accttgacaa gatgcttgag cgtgcgaaac tcgccaatga gcagcgctac 60

tttgacgaag acgacgatta gctattcaaa tttgtttggc ggctaccagg gtttttgcag 120

tttgctttgg tcagaaaaac tggctccgca tttcatctgc ggtagtgtaa taaactgatg 180

tttcacagta cttgggttgt acttgtacgg gagacctttt tatggtactt gaatctgatt 240

gattaccttc tctgaat 257

<210> 5743
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004d11b1

<400> 5743

ttttcacccc ttgtattaac accatcgctg ctcttcactc ggagcacaag atcacacgca 60

taaaatggtg taggaaacac aggggcacaa gaactcgagc accagccact ccagctgcct 120

gctctgctca ttggtttggt agggagagat gaaggcgatg tccgggacga agctgctcct 180

cgtccgccag ccgtcgagca agtacggtaa cggggcggtg tcgccggcga cggccacatc 240

catctcctgg cgccgcttct ggctcgtcgc gttcctcgcg ctcttacctg cgcgtccctt 300

ttacggtctt cttcacgggg cgcgcgccgt ccggggcggc gtcccggggg tccagttcgg 360

cgcggccggg gtcggtgcgg gcagcgtcgg gggcccgtcc gcgggcgga 409

<210> 5744
<211> 522
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004d12b1

<400> 5744

tttcaaccgc gtcgcttaat cggaagccgc cgccagggag gaagagaacg gagcgaggag 60

ccatggccgc ccggaacttc ttcgtccgat cccccaagga ggaggaatcc agcgccgcca 120

tccgagaggc tgtcctgttg ggagggaaga acgccgccat tgctggcacc gtggtcgcgg 180

ttcccacggt gcgtatttgt gtgctgaatt cttgtgtgca tgctcgcata tgtcctgact 240

tctggcagat ctgatcttgt gcagttcgtt gcttgccgtg tccttccttg ggctaagcac 300

aacctgaact acaccgcgca agcgctcatc atatcgacag tcctgtgtcg ccggcttctt 360

catcaccgcg gataaaacca ttctgcgaaa cgcaaggcaa aacaccatcg gattggatcg 420

acgagtcgac ttgatccagg actgtacaga atcgcaggcc ctctgttcca tctatgatcc 480

atggatggtg ctgcatgagg agacgtcgaa tttcagtttc ag 522

<210> 5745
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004e01b1

<400> 5745

tagtatcttg ggtgtactgt atggcaagtg atccggtcaa gatggtcctc ttatgttctt 60

agtggcaccg cctcccctat gtggttttgc acgtgtactt gctgactgca gatggatggc 120

tggcttgcat gtagtattga gctatgtacc ctgctggtgc catgcatgct agttcttttt 180

gttctttgtt tctgtcgtcc cgtatgttgt ttcagcttgt aatttgtttg aatctaggag 240

agacttcctt agtgacatgt atcctatgaa tttggcgtgg cgccttggtt gtcaatgatt 300

ctacattctg actatttgtg acgaatgtat gggatgcccc 340

<210> 5746
<211> 160
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316004e04b1

<400> 5746

tgctcngaga gattcaggag agccctaatg agtgagactg ttttcatgtt ttatgcttat 60

gtcgccccat acacacctat gtaattcgag agtctatcta tgatctatta gcatacattg 120

gcataagtgt tcactttgtg gcaataatac ttatctaata 160

<210> 5747
<211> 222
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004e05b1

<400> 5747

tttcgaccca cgcttctacc acgcgtcgga gagaagaaga ggaagccttg cagcagtggc 60

gagggaagcc aggatgtgcg cgaggggaca ccgcggatga ggggtgctcc catcctgctc 120

cgctcgaggg ggatcgtaga gcctgctgta tgacctgcct caccggcgcc agccctgcac 180

ccgcggcacg atcccatgcc gcgactcctg gaggacccca ag 222

<210> 5748
<211> 381
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004e06b1

<400> 5748

tcgccgaagc agaaaaagca tcgtctcgtc tcgtctcgtc gaggaatcaa cagccatggg 60

cggcggcaac gcgcagaagt ccaagatggc gagggagagg aacctcgaga agctgaaggg 120

cggcaagggg agccagctcg aggccaacaa gaaggccatg aacatgcagt gcaagaaatg 180

catgcagact ttcatctgca ccacctctga agcaaagtgc aaggagcatg ccgaggcaaa 240

tcatgctaaa agcgagctcg tccagtgctt tcctcacctc aagcagtgat atctgcccat 300

cagacagaga gagagataaa gagagagaga gagagaagct gtcataatcc acctactatt 360

atcatgttcc gcaatgactg a 381

<210> 5749
<211> 436
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004e08b1

<400> 5749

tctctgggca aggtgcccgc gtataacggt ggtgatggca aatggattgc tgattctgat 60

gtgatcactc aagtcattga ggagaagtac ccaactccat cacttgttac tcctcctgag 120

tatgcatcag tgggatcaaa gatcttctcc accttcgtca cgttcttgaa gagcaaggat 180

gccagcgatg gctcggagaa ggcgcttgtt gacgagctgc aggcactcga agagcaccta 240

taggcccatg gaccctacat caacggggcg aacatctccg ccgtcgatct cagcctggct 300

ccgaagctct accatctgca ggtcgccctg gagcacttca agggctggaa ggtccctgaa 360

accctgacca gcgtccatgc ctacaccgag gctctcttca gcgcgagtcg ttcgcaagac 420

caagcgacca agagac 436

<210> 5750
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004e09b1

<400> 5750

ccccttttcg acccacgcct cctaccacac ggccgggaat accagccagg ggccatttta 60

ataagtgttg ggtttatccc ccacgtctcc cgtttcatga accacagttg ctcccccaag 120

cgtctccggc agccagtgca gaacaaccac ggagacgaca agcacccaca cataatgttt 180

ttcgcactta atcacatcgc tcccatgaca gagctaacct atgactatgg tgtgcctgga 240

gaacagacca cccatagagc caagacctgc ctgtgtggat cattaacc 288

<210> 5751
<211> 204
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004e10b1

<400> 5751

gctgctcacg cgtacgacca cgcgaccgac caggggtcct ttcacgcgtt cgccaaaaaa 60

acacaaaaaa aaaaaaaaaa gaacacaaaa aacacaaact cgtaaaaaaa ccaacacaca 120

aataacaaca aaaacaaaac ctaacactaa aaaaaacaaa acaaaaaaaa agaaacacct 180

ccctaaaacc aaaacagggg gggg 204

<210> 5752
<211> 540
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316004e11b1

<400> 5752

tgagacaatg tcacagtagg gcatagtgct gtattacatg gatgcactgt tgaggatgaa 60

gcttttgctg gtatgggagc taccctgtta gatggtgttg ttgtggaaaa gcatgggatg 120

gttgctgctg gagcccttgt aagacagaac acgaggatcc cttgtggaga ggtatggggt 180

cggaaaccct gcaaaatttc tgaggaagct cacagacgag gagatcgctt ttattgcgga 240

atcagctgcc aactattcca acttatccaa ggcacatgct gttgagaatg ctaaatcctt 300

ggaaaagatt gattctgaga aagtcctgcg caagaaattt gctcaccagg acgatgaaca 360

cgattccatg cttagtgtca ctcgagaggt ccctccagag ctggcgccca ccagtcctac 420

tcctccaatt aaactattct atcaccacct tcagtttgca ttcttatttc tctatctgtc 480

cagngagttt ggcagtctac ttttacttca gtaattttgg gtcgagcatt gtctaaagct 540

<210> 5753
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004e12b1

<400> 5753

tttctcggaa gtacgggcct ctgaagctgc aagtgttgga ccacgacatg gtgtccaagg 60

acgacctgat gggggaggcc gagatcgacc tgcagcccat gatcaatgcg gcagcatcgt 120

ttggagatcc agaactgctc ggcgacatac agatcggccg gtggctcaag tccggggaca 180

acgctctaac cgccgacagc gctgtcatgg tgaccggagg caaggtgaag caggaggtct 240

ccctgaagct gcagcacacc gagtcggggg aggtgacggt ggagatgact ggggatggct 300

ctaaacattt agagaatccg gatatacgat ggcaaatttg tactttgctg caaaggatcc 360

attgaatcga ctttctggga aaaataataa tttctgctac tagtagcagg caatcac 417

<210> 5754
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004f01b1

<400> 5754

tactatttgt gagatgctcc gccggctggt gccgccggtg cattattggg tggtcccacg 60

cgtcttgtta cgcgtccggc cacgcgtccg cccacgcgtc ctcccacgcg tccgcccacg 120

cgtccggttg aagtgtttga tgaggaaggt ctccatattc tcatgggcat ggcttttctt 180

acctatctgg agctaaaggt atcagagaca gccggcgtca tgactgtaag tagcaacggg 240

ttcaagctgc tagaggtgtt ccactacaga attaatgaag accgtttgaa tgaaggcgaa 300

gcaccaggga tagaatttgc agcaggtgct atgccagcac tccggcggct ccatcttttc 360

tggaacggaa attttgctag tgatggtgct gacatgggta tccagcatct ttcaagcctt 420

gcgcaccttc aagtggaaac taggtattat aatgcaacca tggaagaggt gaaggctgtg 480

gagggtt 487

<210> 5755
<211> 293
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004f03b1

<400> 5755

ttgtaagaag aagagagggt gctcaacaac ttctgcgact ccgccatgtt tgctgctctt 60

ttggttatct aatcctgcat agcgtacgtt gccgtccgag gctgcatgtg gtttgtcttg 120

agcttcgtac tactgtctac tagtgcttgt aactttcttt tcttatcccg gtctgctcac 180

tgcatgctag cgagtgatgg gtgtgtatgt gtgtactttg tgtacgctcc atgtgtaaat 240

tctcgtgtgt gtggtgtggt gttctcaatg tttaaccacc tactatggta aga 293

<210> 5756
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004f07b1

<400> 5756

tggggaacgc ggaaagggat ctcgccggaa cgctccatgg agctcgccgc aaccggcgct 60

gctgccctcc ggcgatcgtt ggcgtcgggg tatccggtgg ttccgaggga gaggagaagg 120

cggatgccgg ccagggtgtc ctgcgtcggc cgcggaggca gaggcgtagg cgggggattc 180

gccgacgagg cgcacctcag gtactacgag gcgccgccgc ggaaggcggt ggaggcggct 240

gccagggacc ttaccaagct ccaggccatg ggccttgtcg cctgcgaccc ggccaaggag 300

aagatcctct cggaagccac tgagctgctg ctaaaggagc tgaatcagat gaaggatgca 360

gaggacgagc 370

<210> 5757
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004f10b1

<400> 5757

ttttctcaaa atgatttatt catgatgatg caggtcaatg tattaaatga attggtagct 60

ccagacactt gcgcacaaag cgtagaaatt ttgtatgagg ttaggggtgg agtagacatg 120

gaatttcaag ttccagttcc tttcaatgtt gtaccagttc aacagatagt tcctcagagt 180

ggtggagaag gccaagctga gttagttctt gattcttgta ttggtagttc cactgtgcat 240

gacccgtcta agatgtctgc tgagctttgc attggtgaat cttgcacttc tatgttacag 300

ctgatgaaga ggtatctccg attggcaaca actaatgcat catggactgc gaacaattct 360

tttgcagtct acccgtatta ttatggggct tactttactt cgggtgtgga tttgagtggc 420

accacaggct atattactgg tgattatgtg gggcttttgg cttcatg 467

<210> 5758
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004g01b1

<400> 5758

tggtcatctc ctccgccacc accaccacca cgtgcccggc ctcgctcctc gccaggcagg 60

ccgtccgccc cggcgccgcc gtcgtcgcgc tgacctccgc gaacggcggc ggcgacgacg 120

cccccgtccg gcccgtcaag gtcgacgccg gcgccgcgtc cggcgggaag ccgtgaagct 180

gaccggccgg aacaagggtg catccgtgca tgcattatct atgttattag gatataatca 240

catgtatcgc tcctgtatac tgcttccctt ccaattttct tgctctgaag atcagactca 300

ccatgcacac gtacgtgcat gtgcatgatc gagcgagctc ccatgagaag gcttatctcg 360

ctccctccat gaatttgcat gaagatcttc 390

<210> 5759
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004g09b1

<400> 5759

tttttcccac gcgtgcgtcc acgcgtccgg cgacgcgtcc gtccacgcgt gcgcccaaac 60

cctaccccgc cggcgccgtc gccgccgcag cgcgcggagg cgacctccca ccgccgccaa 120

gatgcagatc ttcgtgaaga ccctgacggg caagaccatc acgctggagg tggagtcctc 180

ggacaccatc gacaacgtca aggccaagat ccaggacaag gagggcattc cgccggacca 240

gcagcgccta atcttcgccg gtaagcagct cgaggacggc cgaaccctcg ccgactacaa 300

catccagaag gagtccaccc tccacctggt gctccgcctc cgcggcggcg ccaagaagcg 360

caagaggaag acctacacca ggcc 384

<210> 5760
<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004g12b1

<400> 5760

ttcttacgcg ttcgagaaga tcgatcgatc gggctgtttt actggttgtt tcctcccacc 60

gccactcgat ccaatcacat tcagggagga aagattcaac cgactgcgcc tccgtgatga 120

acttgctgac tgaggccgcc gtcgccttcc gcggggaggg gaggctgatg atcctgcagg 180

tgtgggcgaa caacgtggag tcggagtgtg caggcgatcc ggcaggtggc agaacggttc 240

ccgtactgga tcatggacac ggcgctccct gtcgtgatcc act 283

<210> 5761
<211> 317
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316004h01b1

<400> 5761

ttttcttcgc gtgcgtccac gcgtacgacc ctggttgtct tcttcccaaa cccagtgcaa 60

gcaagcgcaa ccatggctcc gattggcgtg tgcagcaccc tncccgacgg gcagctcgcg 120

tggttcgacg agagcgaaca gatgcaacag gtctccatcc actccctggc cgccggcaag 180

aaggtcatcc tcttcagcgt ccctggcgcc ttcaccccca cctgcagcaa tcaacatgta 240

ccaggcttca ttactcatgg ccgggagctt aaagcccagg gtgtcgatga gatcctgctt 300

gtcaagcgta atgaccc 317

<210> 5762
<211> 226
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004h04b1

<400> 5762

tgctctgcca gtgcttctac tggctctcct ggatgtgttt tcaactcttt caatggttag 60

agctgacgtc ttccttgtag gccttcgggc agtgctactt gtagtggttt ggatcaagag 120

tttacctgtg ttagtgtact gcagttatct gttgttctgt ctagtctttc gagtttcagt 180

ctgtcagagt tagtgggtgt tggtcgtctg tcagtctaga tcgcga 226

<210> 5763
<211> 222
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004h07b1

<400> 5763

ggagagaatg gccgccgtgg ctgggggca ggatttgtgg cggggctcac ggcgtccatc 60

agcggcgggc tcccagtgag gatcaagcgc gcttcgacgt cgggtgcaga cttcaaataa 120

ttactagtga taaattggga tgcgctaaca atgtacataa gtaggagata tcagtaggat 180

agttgtttct ttaataagaa aatcaacgct ctcatcatcg aa 222

<210> 5764
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004h10b1

<400> 5764

tttgcaatga gatatacatc ctgaggggg tactttatac aaatgtatta ttgttccttg 60

gggcatgcat ggtacctccg cacctgtcaa tggttactga atatatggaa atgggatcac 120

tgtactatct catccatatg agtggtcaga aaaagaaact cagctggcgc aggaggctga 180

aaattattcg tgatatatgc aggggattga tgtgcataca ccgcatgaag atagttcaca 240

gggacctgaa aagtgccaac tgtctggtga acaagtatcg gactgtcaag atatgtgact 300

ttggcctttc tcgagcgatc acagatagtc ctatgactga ttac 344

<210> 5765
<211> 285
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004h11b1

<400> 5765

gggagggttt ttcacaaggt atgatctgtt acccactgga ggaggacgcc atccgcccta 60

ttctgcacca ttactacatg gcccaagttc cggttgtcgc tacgcttcac cgaggttctc 120

tcccttcttg atatatctga agacacggac gatgcctgat cgagggctga tcatggattc 180

ttgaggaagg aactagtaca ctaagatcgg atcggtaaat atatacatac atatgattaa 240

tatcattatc aattaatggc gctttatacc tgagttttct gtatc 285

<210> 5766
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006a02b1

<400> 5766

gtctgctgct tatggcctgg gcatgtgtgc agagtgtggt ggttctgcac tgaggcctca 60

tactggggcg gcactgagca gattatacaa cgtcatcaaa catcctaatg cattggatcc 120

ggataatgcg atggcatatg acaattcctg atgcgctcct ggaaagatat gtcaatttca 180

tcgtgagagc accgatgcat ctcaggtcat tcccgcttgg gtaagaagaa cgccatcgaa 240

aaatgaccta gctgaggcca agactgtgca tcaacagatc tgtgcaatgc tcgagaagtc 300

cgacagcgag cttttaggcc ata 323

<210> 5767
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006a03b1

<400> 5767

gtctgttgtt tatggtattg gcatctgtgc tgagtttggt ggttctgcat ttaggcctca 60

tactggggag gcactgtcca gattatacaa tgtaatcaaa catcctaatg cattggattt 120

ggataatgcg atggcatatg acaattctgt ttgcgctctt ggaaagatat gtcaatttca 180

tcgtgatagc atcgatgcat ctcaggtcat tcctgcttgg ttaagttgat tgccatttgaa 240

aaatgaccta gttgaggcca agattgtcca tgaacagatg tgtgcaatgc ttgagaagtc 300

cgacagtgag cttttaggcc ataataatca acatcttcca aagattgtat ctactttttgc 360

agagatc 367

<210> 5768
<211> 163
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006a09b1

<400> 5768

gaatttgcgg gtcgccccaa acattgggtt accaccgtct acccgcggcg tgaggggacc 60

atgaaagagc caggacctca gctgctgtgg ggtgaccatg atgggtgacc gtcatggcaa 120

cgggctgcac gatggctcca gggggccaat ggacttttgt gga 163

<210> 5769
<211> 197
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006a11b1

<400> 5769

ttgtccaacg gcactgcgcc gcaagagctt acgatgactg aatcagcagc actgctgccg 60

gaggcaaaca cctgatgagt tcgcgtccga acaacaggca taatcatggc cctatggagc 120

cattgattct ctgtggagga gcacataagg gacgaggaac tgataggccg catactatcg 180

ctgggggaac aaccgaa 197

<210> 5770
<211> 281
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316006b02b1

<400> 5770

cctacgcttc cgcaagtctg tgtagtaaac agtctcttga tatttccctg aaaattcatt 60

gccgccaagc gtnaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaatgggaga aaaaaaaaaa aaaaaggggg ggccttttaa aagaaacaaa ataaacaacc 240

cggtgattgg aaaacaaaaa ttttttaaag gggcaacaaa a 281

<210> 5771
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006b11b1

<400> 5771

tcgtttgagc agtcatgcaa actctagact ggatagctac cgccggcgca ttttcctctt 60

gaggatcaaa taagaaatcg tgtaccgaaa gcatgggaat ttctttcact tgttcataat 120

gttgttaata agtgctccca gacacacata ctggactgga tgacgtctct tgatgccttt 180

gcctaatgct tgtatctcgt cgttactgtc atgagaggct aaactaaagt aaataacacc 240

agtcccagtc cagtatatac tagtagttcg atgtgctact tgtcttattc agtgtttgtt 300

ctcccaaaca caaaaaaaaa actgatag 328

<210> 5772
<211> 312
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006c09b1

<400> 5772

tcgctacgcg tgcgcccacg cgtccgggga cgcgtggggc cgaagatcgc cctccgtgac 60

ggtcttcccc tcatggtcac cgacttccgc aagcggatct tcggcgacca agataacgct 120

gccaccgcca ccaaagggag gttactagag atccggattt cgactgggat gcttgcattc 180

gcagttgcga cgacaaagat gctctcccaa tcaagaagga gcgagagaac aagaaagacg 240

gcgtagtccc accggcgaag taggcgctcg tagtgagctt atactagcgc ggttcctttc 300

caaacaaata at 312

<210> 5773
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006c11b1

<400> 5773

tcggttatat cttgctcaat tgctgttgat gctgcagcag atcgtcatcc tggagtcgag 60

cagtatgcaa tcagggcatt tgctgatgct ttggatgcca ttccactagc tttagctgaa 120

aacagtggtt tgccgcctat tgatactctc accgtcgtaa aatcccaaca tgtcaaggag 180

aacaattctc gctgtggcat cgattgcaat gatgttggta ccaatgacat gaaagagcag 240

aatgttttcg agactctgat aggcaagcag cagcagatct tgctggcaac acaggtggtc 300

aagatgatcc tcaagattga tgatgtcata acgccttctg agtattgatg acgccttcaa 360

gaacggaatc gactgtgcta agtggcatgc actccattag tcagcatatt ttatatgggt 420

tga 423

<210> 5774
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006c12b1

<400> 5774

tcgtttccca tcaatccatc tttccatgcg cattcatctc cttagagcag ctcctctcct 60

ctccattgct gctctgctcg aagatgaagc tctccatgca gtcgctggcc cggaagctct 120

ccatcccgtc gcccaagcgg ggcaagaagc accagcggca gcatgacggc ggcaagcgcg 180

tcatctcccg gagcgaggcg ccgtcattcg cgtctgcgtg ctactactgc accacctcgt 240

cctcctgcga ggacgcgctg ccgcgggcgt cgacaccccg gtcggtagct gcccgcggag 300

atctcgcggc agcagctgga ggccgtgctc cggcggctgg gccacgagga gccctccgac 360

gacgagctcg 370

<210> 5775
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006d01b1

<400> 5775

gtttatttcc actgccaccg ccaaggtggc ctccatcgac aagaagatag ggctcagcga 60

gaagttcacc atgggcacta cagtggtaaa cgagaaggtc aaggagatgg accagaagtt 120

ccaggtctct gacaagacca agtcggcgct ggctgcggcc gagcagacgg tgagcaacgc 180

cgggtctgcc atcatgaaga acaggtacgt cttcacgagc gcgtcgtggg tcaccagcgc 240

gttcggcaag gtcgccaagg ccgccaccga cgtcagcacg atgacgaagg agaagatgtc 300

agccgaggac c 311

<210> 5776
<211> 281
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006d09b1

<400> 5776

tcggtgtatt ccggtgacgg tgcggcgaga tgtactgcgg tgcacaccgg aactctgacc 60

gtgacgactg ccgctactac tacaaggcgg gggccaggga cgccatcatc agggaaaacc 120

cccaggggcg cgccgccaag aacgcccgga tctgagcaac aggacacgac gtctacgcgt 180

acccggggaa acatgaagca ccgagaccac tctctgactg tgtctactga gaaacagtaa 240

aggcgtgcgc gagagcttct taaaggtgaa aaaaacggag a 281

<210> 5777
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006d11b1

<400> 5777

tgggttatct ccggctcaac tgctggtgat gctacaatag atcattatgc tggagtggtg 60

ctgcttgctg tcagggcata ggctgatgct gtgcatgcca ttccactagg ttcagctgaa 120

aacagtggtt cgccgcctat ggatactttc accgagatga actgccagca tgtcatggag 180

aacaattcta gctgcggcac cgatgagcaa tgatgtgagg tgccaaagac atgaaacagc 240

agattgttgt ggagactctg atagaggagc ttgatgac 278

<210> 5778
<211> 310
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e01b1

<400> 5778

tttacgtgtt cgcccacgcg tccgcggacg cctgggggct gagcttgcgg ctgcagcggc 60

acagccactg cctgatgacg atgacgatct gatcgagtag agagaggatc atgagtcttg 120

tctgtcttat caatcaatac tttgagagcc agagactgtg cgagtcggtt ttaggctgaa 180

ggcttgattc ggagtagtca agccggatgt ttttcctgtc tgccttgcct tgtctggtgg 240

gctgcaaact gtttgtgtga cattgatcta catcatgttg cttgccatgg atttgatgtt 300

ggccaaaaac 310

<210> 5779
<211> 160
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e02b1

<400> 5779

gtttgatctt tactactcac ggacagaacc acaagcacca caagtgagtg accatcggag 60

caaggtaaga ccaggagaga tgggaacgcg gtctattgtg gtgctgggcc tggcgagggg 120

gctgagcagc tcctgactgc gaggtggcgc ccgatcgggg 160

<210> 5780
<211> 183
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316006e04b1

<400> 5780

cttactgtgt gggcggaatt tgagttccaa taaaccaatt acaccttcgt cgttcacttg 60

aaagattgta ttattagaaa cttcatacaa ggcctggctg tttgtattac cgtcgctttt 120

tgcggaactt gtgctataat tgatttaaga agtgcatagg ctaaaacata aggagcacan 180

ant 183

<210> 5781
<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e06b1

<400> 5781

gttacctgtc agaacggcgg cagcggtggc ggcacgggag gtggcagcgg taatgctggt 60

gcataccctt aagttatgtc tatttatgtg atagatctga agatggagcc cagaatttca 120

tgtgttttct ttctttctgt ttgcaccttg tggccccgct agtttgcggc gtttaagttc 180

ttgtatgctt tctcatgtat actagtatgg atgaatcaat caagggcccc atcaacttgt 240

gttgttcaaa agctgaaaga ggagcttgat gacacgaggc ctaagcttgg cactag 296

<210> 5782
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e09b1

<400> 5782

tcgtttcttt gctgccatat tgacttctat tcagtccttg ctgtgtgatc caaaccccaa 60

ctctccagca aattcggaag ctgccagaat gttcagcgag aacaagcgag agtacaaccg 120

caaagtccgc gagatcgtgg agcagagctg gactgctgac taaggcaggg cgaggcggcg 180

gctgccagaa agttgcaata agcaaccatg aaacctttgt ttatggctct ctatagttgg 240

ttcttagatg aaatattaaa catctccagt gattgcttgc aggtcaaacc gtcaaagtat 300

ctttagtctc cgtggtaatt atgtgttatg tctcgtggca ctgctctcat atgttgtgtt 360

gatcctgcct catgaattta ggggcatcct atgt 394

<210> 5783
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e10b1

<400> 5783

tcgctataca ctctctatca gtcacgtcag gctcggtgga tcacggtagc actagcttca 60

gctagccagc ctctgccact ccgggcattt tcttgcatcc acgacggcaa tggccaccgc 120

tgatgtccag aacccgacgg ccgcgctgac ggaggaggcg cccacggtgg agacgccgt 180

cgccgccgag gaggtcgcga agacggagga ggcccccgcg ccggccgagg ccgaggtcaa 240

ggcgcctgct gcccccgtcg aggtcgagga gaccaaggag gtggcacctg ccgccgctga 300

gacggaggag gccaaggagc ccgagccagc agctgcggcc gagccggagg ccgaggcccc 360

caaagagaca gaggcgccag ccgtggtcga gacagagacc aaggaggccg tg 412

<210> 5784
<211> 435
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316006e12b1

<400> 5784

tcggtgtcag actaccattc ggaaaagcct catatactgg actacagtaa atatccagat 60

atcgatgagc agaggcgttt cgtgaagact tacctgagca cttctcgcga ggaacctgaa 120

gcggaggagg tggagaatct gctccggagc gtggagaagt acacgctcgc gagtcatctg 180

gtttggggac tctggggaat aatatcggat cgtgtcaacg acatcgactt cgattaccag 240

gagtacgcaa ggcagagatt tgagcagtac tggcagaaga agcctgccgt cctaacctca 300

tgaatagctg tacctatggc tctaggaact ccctgagggc ctgtgctgct gcacacaaac 360

tgtgcagtgt tactaacaca catatccnct ggctgggata atgacaggaa ggatatgaga 420

gaagcatact attac 435

<210> 5785
<211> 247
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006f02b1

<400> 5785

gttacatcta aaaaaacaaa aaaaagagaa caaaaagaaa aaaaaagaac caataatgct 60

gatagataaa ccaagaagag aaagagaacg aacaactagc aaaaaacaat ggacataaaa 120

agggggtgcc tctctgggga ggccaacatg acgaacgatg aactgaaagc ccagtctctt 180

tttattgggt gaacaaatga aacttaatgg gaggctgtct gaaacgaaag aagaggggaa 240

accccgg 247

<210> 5786
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006f04b1

<400> 5786

cttcttttct cattttgata acaagtattt ccggacggag gggtacttcc ttcgtcccac 60

aatgtaagac gcttttgcaa cctattttgg gacggaggga gtattcgctt gctactacta 120

cttggtctgt atactgtagt agtgcttctg ccctggatgt gatgtataaa ctgcctttgt 180

ggccagataa gataagtctt tgaattctca tcggacaaag ttatcgtccg gtgcatgtgg 240

tggagaagga caggtttgga ataaaagttt ctacagtttc ttcctcggta aaaaagacaa 300

agataaaaaa cgaagagact gagaaaaccc 330

<210> 5787
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006f10b1

<400> 5787

tcggtcatgg atccggctct tcggcgccgc tcccgcctgc ctatccacct cctgctggtg 60

gccgtcactt tactcgccgc cctggccgcg cgatccgacg cggaggtcat caccctcacc 120

gaagagacct tctccgacaa gataaaggag aaggacacag tatggtttgt gcaattctgc 180

gtcccttggt gtaagcactg caagagccta ggaactcttt gggaggacct cggaaaggct 240

atcgaaggta cggatgaaat tgagatcgga gaagttgatt gcggtgcaag caaaccagtc 300

tgctcaaagg tggacattca ttcataccca acattcaagg tgttctatga tggcgaagaa 360

gttgcaaaat ataaagggcc tagggacgta ga 392

<210> 5788
<211> 254
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006f12b1

<400> 5788

tgggttaccc ccgcggacag ggggcgggag tggaccatga ctgactctga acctcgggga 60

ctgagtacta accgtggtta ggcttggtcc gctcaacttg catgatgatg gtccctccac 120

gccattggat gtgtccggag gagcacatga gaccagaaaa gctgctggtc gcgctacttt 180

caatggcaac acgcctgagc caaccatgga cctctgcgga tacgaaagga gagactggga 240

ctacgatgat agca 254

<210> 5789
<211> 434
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316006g10b1

<400> 5789

tcgttttctt tgtgtttggc atctggtcat tgtgggaagg cttcaaagaa gaaggagagt 60

cagaagatct ggctgaattg gaagcaaagc tggatgcgga ctttaagact aacaaagggg 120

aatcgaaaaa taaatcaaag gcaactgaag atacaaagaa aaagcaaagg ccatttctca 180

tgcagttctt ctcgccaatt tttataaagg cattttccat cactttcttt ggtgagtggg 240

gtgacaagag ccagattgct acaattggct tggctgctga tgaaaaccca ttcggcgtcg 300

tcatcggggg agtcatagct caagcactct gcactaccgc tgccgtgatg ggagggaaga 360

gcctggcctc tcagatatcc gagaagatgg ttgaattgtc gagcggngtg ctattcctgt 420

tgatcagcat aatg 434

<210> 5790
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006g11b1

<400> 5790

tcgatgatcg gcgacggcca gatcaactac gaggagttcg tcaaggtcat gatggccaag 60

tgaggtggcg ggacaggggg tgtcctccca cgaaataagc ttaaaatttg ctctcaagtg 120

gattggaatg gaatgccaga cagactcgca aggatgtatt ttgtgctatg ttctttaagt 180

actgttgcct gttgggtagc tggtcgggtt atcttgtacc ggcgtagtcg tggggagcag 240

catcggattt acctggtttc tagtcttatc atggaattta ggggctttgt gcaaatctcg 300

gctttgccct gcggattgct tgtatgctag ggttgtgttc agctacaaaa tgctggccgg 360

aagtacattt tgtggattcc aattaaat 388

<210> 5791
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006h03b1

<400> 5791

gttcatttcg gtgagcgggt tcaacaagac ggggctgccg ggcgccatct ggaacttcat 60

ggcgccctac tccaaggtgg acagcgccgg cggcatctcc gtgctctgcg tcatcatgct 120

actgctcttc aacctggcct gcaacgtacc aacagtgctg ctgatgggga acgaggtggc 180

gaccgcagca gccctgatct cgccggcagc ggtgacgcgg ccgtggctgc tgctggcgtg 240

ggtgagcacg gcggcaggga atctctcgct gctggggtcg gcggccaacc tgatcgtgtg 300

tgagcaggcg cgtcgggcgc cgcgtacgcc tatgagctca ccttctgaac cacctcatct 360

t 361

<210> 5792
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006h05b1

<400> 5792

tcgtttacgt tttcgcccac gcgtccggcc acgcgtacga ccacgcgtgc gcaaaaaaaa 60

gatgataaat gaccatgaag agaaagagaa caaacaaatg aggaaaaaaa tggacataaa 120

gagacattga taatatgagg aaggagaaca tgacaagggg gggcctgttt ggaggactca 180

agtttatggg cgaataaatg aaaccgaata gtttttctat gggggaccaa aaatgaaatg 240

aactggccgg ggtttaaaaa tgaaagaggt gggaaaaccc tggagtccca aatttaaact 300

gg 302

<210> 5793
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006h07b1

<400> 5793

tttcgttcac gcgtgcggcc acgcgtccgg tgccaacaga tcggttaaat caccccaaa 60

acgcacccac caccacaact ccggcggcgg cgaccagacg aacacgagca ccaaggcgat 120

ggcgactgct ctcaaccgcg gcctccgctc cgggatccga ctactcgcca ccggcgccga 180

ggtctccaag ccagcttcac gtggattcca tgctaccggc gtgaagagga tgtcagggca 240

cggccatgat gagccatact acctgcacgg ctagcacatg tacaacttgc acaggatgaa 300

gcatcagaag ctgactgcat ggacttcggt gctgggagcc gtaagcattg gtatcggtgt 360

cccggtcttc gcggtcgtct tccagcaaaa gaagacctac tacgatgagc tcacataccc 420

tcccagggcc tacttattgg acctattttg aattagcat 459

<210> 5794
<211> 312
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006h08b1

<400> 5794

tttcgttcac gcgtccggaa gacaatgcgg ttggctctca aatcgacagg aaaaaagagg 60

gctgcacctg atgacgacga cgacgacgag attgagatgg accctgaagg ccgtatgatc 120

attcgcgaag aacgggaatg gcgtaaaaag aaacccgtcg tctcgcatga ggaggaggct 180

gatgacaaga cctctgtcag aagccagtcg gtgaagagga ggaaggtggc cagcactggc 240

tggtcctaca ccggccatga gtacaccagc tagaaggccg gcggtgatct caagaagaaa 300

gacaagatgg ag 312

<210> 5795
<211> 193
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006h09b1

<400> 5795

cttacgcgtc cgcggacgcg tgggccatcc cagaagacag gactggaagt gtttagacgg 60

tcctgcccca atgtaaaata ttcaagtttg taaatgctta tataatgcgg acatggagca 120

tgtgatcccg agctggggaa aacaggacca aagatgaact gattgcccgg ctgctcccga 180

ctagagcaca aac 193

<210> 5796
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a04b1

<400> 5796

ttcttgtacg cgtgggggac cacaacccga gcgggggcgg tttagcaaca ccaccgccac 60

cacaccggtg ccaaagaagt acgcgctttt tggggtaacc tagaaaacca acggcaggaa 120

cctaacaacg gccactaccg ggaaagctta ggccagggac ggcaccgcgg atggacctca 180

ccaag 185

<210> 5797
<211> 139
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a05b1

<400> 5797

tgctacgcga ccgcccacgc gaccgcccag gcgtgctttt acgcgaccga ttttttcgtca 60

tcacagagaa aagaaactgt gcttgtgttt taaaaaaatt caaacaccta ctgcaatttg 120

gtcaaccaca aaaacacta 139

<210> 5798
<211> 374
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a06b1

<400> 5798

ttattacccc ataccaagct catcccgggg tcttaaatct tttgggttca cagatccgga 60

ggatgtcttg aactgaggat cccgctgcag ctgcggctca aactgcaagt gcgggaagat 120

gtaccatgat ctgacggagc agggcagttc tgccgtccat atatgccgcc gcactcgacc 180

tcagagcgag gcctgagaac aaggcggggc agatcgtggt ggccgtcggg caagccggcg 240

agggctgcaa gctgcggcga caactgcaag tgcaacccca gcacaggtaa gctggatgca 300

ctcacaccaa cctgtgttgg tgagagagta tacgaacata accagacgtc gaatcttgat 360

cgaaacccat ccac 374

<210> 5799
<211> 241
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a07b1

<400> 5799

tcttggtcac ccccggcgcc cgggcgcccg agggggaccg tatacaggta tccgcgccaa 60

tgcccgcggg agagaggcga ccgggtgcga ccgaggaagg cctaccaata cgaccaaccc 120

gccggcgaag atgctcggac gcgaccccaa gaagagcgaa aacaccgaga gccccccaggc 180

gctcggggcg cccacaaacg ccccccaaga acaagctcaa caaggcctac cgcacggccg 240

g 241

<210> 5800
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a12b1

<400> 5800

tttaacaccc caacccacaa ccagcagagg aggagaataa agagagagac cgagagaaag 60

agcccacaag ggcggaggcg gcggcgcacg ccacaaaggg ggcaaacacg accggcacga 120

gccaacggag ccgcgacgag aagaggacgc 150

<210> 5801

<211> 183
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007b01b1

<400> 5801

tctccacgcg tccggagctt tctacctatt ggatttattt tagttgtatg gtcctgatgt 60

gctctaggaa ccactcttga tatcttcggt ttgtgaacct ttttgcgacg ctgagatgga 120

gctgtcatac agataatact tcatatggat gtactgatgg acattcatgt ggattatgtt 180

ttt 183

<210> 5802
<211> 635
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316007b04b1

<400> 5802

gaaaaaggag aagaaaagaa ggtacagaaa aaaagaggga gaaaaaaaat aaaaaagaaa 60

aagaaaaaaa aataaaaggg ggagacagaa aaatttnggg aaaacacaaa gaaagaatga 120

aaggaaaaaa aaataaaaaa agaattttta aaaaaaagag aaaaggaaaa gaaaaggggg 180

gaaaaaaaaa aaaaaaagga gaaaaagaaa aaaagagaag gagaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aagaaagaaa agaaaaaaaa aaaagaagaa agagagaaaa aaaaaaaaaa 300

aaaaaaacgg aagagaaaaa aaaaagaaaa agaaggaaaa aaaaaagaag agaaaagaaa 360

aaaaaaaaga agaaaaatga aagaaaaaag agaagaaaaa aaagagaaag aaaaaaaaaa 420

aaagaaagaa agaaaaaatg aaaaaaaata aaaagaaaaa gatagaagaa aaaaaaaaaa 480

gaggaaaaga aaaaaaggag aaaaagaaaa aaaaaagtga aaaaaaagag agaaagagaa 540

aaaaaagaag aacaaagacg aaaaatagaa agaaaaagaa agaaaagaaa agaaaggaaa 600

aagagaggag aaaggaaaaa aagaaaaaga aggaa 635

<210> 5803
<211> 78
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007b08b1

<400> 5803

ttaatgacca cacccccgat gggcaggtga tagggaaaaa cttggaaacg ctgccgcgaa 60

aactcaacgg cttcaaaa 78

<210> 5804
<211> 327
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007b10b1

<400> 5804

ttttgacccc accaccacct gtacgtatag cggagattat ttaactaata ttacgatgag 60

aaacaccaaa taatgcaatg catgaaagcc caatcaccat tatgccgaca caaagcagaa 120

tagtacagcg ggctttggaa gtggagagca cagaacacac gccactgccg agtgctggtc 180

cattcagaca cctgaatggt ttgcaggaga cactcaatga acggggctct ggccggttcg 240

gggcgtctac taggggggac ttcagagaac accatgattt agcaaattct gcgttcaatg 300

gggcaactac cttgacacaa aactttg 327

<210> 5805
<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007c01b1

<400> 5805

tctacgcgta cggaccttgg caagcgctgt gccaagttct atgaggctgg tgcccgcttt 60

gccaagaggc gcgctgtcct taagattggc cctaccgacc catacaagct tcattgacca 120

gaatgctcac ggtctggctc gttatgccat tatcttgcca cgagaatggg ctggcgccca 180

ttgttgagct tgaaatcctt tgtgatggac cctcatgaca ttgaccgctg tgcttatgtg 240

accccgatgg cactgctgcc tgctcaaggc tctcaacgac cagtatgtcc tccttg 296

<210> 5806
<211> 98

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007c03b1

<400> 5806

tcgtaataaa aaaaaaaaaa aaaaataaaa aaagggatat tttaagaaaa aaagaccaaa 60

aaaacccagc attaaacgag tcaccatacc taagcaac 98

<210> 5807
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007c10b1

<400> 5807

tcgtcgtcag ctcctcaacg acccaccgca gggggacctt atacaagaga tcacgtcgct 60

gcccccagct gccaccatgc agaatgaggt gggcgacatg gtggacactc acgccccag 120

gaagagctcg gtcaccaaca ggatcatcac ggccaaggac cacgcctttg ctcagatcaa 180

cataggtaat gcagatgaga atggactgta tgatggccgt ttaaccacct tagctctgaa 240

tgggctcgtc cggactcagg gagatgctgt tggtaccctc gacaggccga ggcagaagag 300

gaaggctgag atcaagcaga 320

<210> 5808
<211> 427
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316007d04b1

<400> 5808

ttttaaaatg atatcgagac tgatatagaa agatcactaa agcaacttca gcaagtaaat 60

tctcaaatgc aaacctgggt atcatcagga ggctcagaag ttctatctca tacattgacc 120

cgtcatatgg agattttgca agaccttacg caggaattct atcggcttcg atctagtctc 180

agagtgaagc aacagcatgc ttctctcctt gacttgagag actttgacag agcaaagttt 240

gacgtggaag agtctgggga ctcagaacaa gctcttctta gagaacaagc tgcaatcagc 300

aggaattctg gacaggtgga cactgtgata tcacaagctc aagcaacact gggcgctctc 360

atgtnccaag cgncaacgtt tggtggcatc actaccaaaa taagcaacgt cagcagcccg 420

atcccca 427

<210> 5809
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007d05b1

<400> 5809

ttgtccacgc gtccggccac gcgtccgggg ctcacagcta gctagatcca ccagccatgg 60

ccggcagcaa ggcactgctg ctactcctgt gcgcggcggt ggtgctgctg accccggcct 120

ccgaggggga ggacggtctg accaagttca agctgtattg gcacgacgtg ctggcgggga 180

cgagcccgac cgcgatccgg attgcgcagg cggagtgcag caacagatac tccaccttct 240

tcggtgcgga ggtggacatc gactacccgg tcaccaccgg ccccgccgtc acggggctcc 300

gccaaatcca aggacgagat cggtcgcacg caggggacct acacgttcgt cgaccaggcc 360

accttcggtc tcctcatgaa catgagct 388

<210> 5810
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007d10b1

<400> 5810

tgtcgcccac gcgtccggga aaggccccca agcttggctg tggtggcggg aagcgctaga 60

tggagtccct tacgatcaat gtgaaatttt gaaccagttg catgatgtct taccccgtat 120

cttttaggaa gttttttgct caaaccagct gttgctgtcg gtatgcagca tctgggtgca 180

caaaccagtg gtggatcagt gtgaaagatt gttttatgtt tctcatcaat gtgagattgt 240

tctatgctta aaaaaaaaaa aaaaaaaaca ataatttatt ataattaaaa cataatataa 300

gttaaaatat tttgtcttgt aaatacttat ttttcttaaa aatcaggggc ggctcttcta 360

atggatccaa gttttttac cc 382

<210> 5811
<211> 349
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007e04b1

<400> 5811

acctgaccga tcggtggtgg tgctggtggt ggtggtgcct tttacataag gtggagttgt 60

tacacaggcc actaaagctt aggagatcaa ggacgaagag atggcggaga gcaaggacta 120

ccttgcctac tacttattct agaagagctc attaccactg atgaacagca cggatcacat 180

tgttctattg cacgcacaat tttgatgcct tgcccacagg gtacgcgaac ctgcactagt 240

ttgatagaaa tgggatgcat gtgttacttg ctgtgcatgc gatgatttgg ataaactaat 300

atgcactaac taatttccta aataagatgt aggcttgcca gcttacaat 349

<210> 5812
<211> 152
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007e12b1

<400> 5812

gtcgtaccag ggtggagacg aaggccgagc gggggactta tactaccatt ccggtcttcc 60

ccaaaggccg aggctggccc aggaatcgcc tgacacctga caggaatcag actagcgtct 120

ggtacaccag aggctcgccc gggctcaacc aa 152

<210> 5813
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007f02b1

<400> 5813

tccacgcgtt cggtgtcgct gcgaagcgcg caggccgttg gcggattggc gctcctcacc 60

gcggaggctc tcgtgccagg tcagatatgc tatgacctga aggtgagggc tcatggtcgg 120

cgcacggcat gtgaggtgga gatgctgttg gcctgacggg gtgtggcaga ggagatgtgg 180

cctgatctgg tgggggcggt gtcagcggta ggtttttctg ggttctcacg ttcaggtagg 240

tggctgctct gttattgtta gatcaatatg gagtctttgc gagcatctag ctttctgtca 300

ttcc 304

<210> 5814
<211> 237
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316007f03b1

<400> 5814

tctgntcatt tacatgtact catctacact gtgcaatcta tgtatgatac aggttacaga 60

cactgggaga tgacctccca ccaattgacc accacgttta ttagatcaaa ggagtcaaaa 120

ctacaaaaca caggatgatg ttgatgagta catttacatg taataatcct tatgtttgca 180

caaagtgaca gttcatgtac cttttgacag caagttcaag gtgttgccat tcttcgg 237

<210> 5815
<211> 51
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007f04b1

<400> 5815

tttattgcac gagatcgcga gcgccgctca tgggggtttt tttaggaacc t 51

<210> 5816
<211> 324
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007f06b1

<400> 5816

tgagatatat gagttgtgac aataattgat gtaaaatggt ttgtcagttc aaactgcatt 60

agtccagatt gcagcaattc gaactaccat tcactgttgg aagtcttgaa aacatgttgt 120

taaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaataaa aaataaaaaa aaaaaaaaaa 180

aaaacaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tataaaaaaa aaaaatgggg 240

ggcccctttt aaagaatcaa aatttccttc cccgggcttg aacaataaat aatttttttta 300

tgggcaacca aaattaaatt aatg 324

<210> 5817
<211> 252
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007g04b1

<400> 5817

ctttataccg catgctgccg gaatggtgcg ggggcccatg atccagaact aggcctggtc 60

ctccaaccac acggtgatca gcgtcgaaaa ccgtccccac ctgcccctag tacaggctgg 120

actagcaaag aaagagagcc cgaagactca cggctcttag gcaacacaca aatgctcgtg 180

tgctgacacc gaagcctgga agtacgccga tacttggcat agtgacacca aagaccatct 240

gaaccgctag aa 252

<210> 5818
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007g06b1

<400> 5818

ttgttaaacg cttctctcga acctttttcga tggggcaggt catgctgttc ccgcagttcg 60

gctcaagcag gagatgcatt ccatcaaaac tgaacgggtt gctcgcaagc tttcgcatgg 120

cgaagatgtc ttcttgaagc ccggccaggt ccgactgaac tggaccgctg gaccggaggg 180

tgacctgaag ccgtggtagc aactctcgca tggcggttag gagatgtata aaaacctact 240

tgaaaataaa cattgtcaga ccttgaatac tttgcgcctt tataccacca tggttgcaca 300

gtgctgacca taagtcaaa 319

<210> 5819
<211> 485
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316007g07b1

<400> 5819

tnctgaagaa agcctcggcc accggagctg ctgcaggtct tctatcgagt atggacaagg 60

tgctggcctt ctccatcctg agcgcctcgg ccgccgacat cgcccccggc gccggcaaag 120

gcggcagctg ggcccggctc tcctggcggg ggaggaagct gcaggagggc gaccgggcag 180

gagcagagca ccaagggaag cagggaggcc tgccgcggga ggcagagcaa cagcccggca 240

aagggaaatc gcagtcgccg tcaacgttgc cgccgcggtt tgcgccggag tttgatggga 300

tcgactgctt cgagaccatc gtgtgccatt gatcgctgat gaatcgcgat ctgctcgtgg 360

tccagccggg cgtgtggcta cggactgatt ctttctccgt ttgtcggccg tacgatcggc 420

gtgttcatac gtttcttaac ttgtgcttct aactgaagcc ggatgcttga cagaatacag 480

agtta 485

<210> 5820
<211> 273
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007g08b1

<400> 5820

tctcgctgcc gatcctgcct gcgcaaatcg tgcagctagt tctcaacaat gcctcctact 60

gaccaatcaa gaacatgtgt gaaaattttt cccggaaggc aggggaacaa gaatactgga 120

ggtgccaacg atctctcgga cccagacctg aaaaacacta gattctccgt caacgcactt 180

gctagcttcg cggtgtgcat cacctactaa gcacgactgg atccaccaaa cggcctctgg 240

caagatgatc tagatgggca aaagactgga cac 273

<210> 5821
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007g11b1

<400> 5821

tttctcccag atgcctaccc tcctaacctc acccgccttc ctttactact ccccgctcca 60

cctcgcctac cgactaggag gagccgccgt acgaacgacc tccaaccacc accgtcggat 120

cctcgccccc gatccccaaa ccgcgccgag gggcaccacc accggcggcg ggtacgctga 180

gatgagctgg ctcgggaagc tggggctggg gggcggggga agcccgcacg cgtcggaggc 240

gacggaggag ctggcgcaag ggcccgacga ggacaagccg acgcccgggt gcgagatcgt 300

gcagttcgga gccggctgct cctggagcga agagctggtg taacagcgcg tgcccggggt 360

caccccgacc aaggacggat acagtcagtg cgcctttaag accccaccta caggacgttt 420

gaccggagcc accg 434

<210> 5822
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007h02b1

<400> 5822

tggtatcaac acgtaccagt acccagcaca ctagcagcta gcttagctca ccatctgctc 60

ttagaatggc ggcctactac agcgccggca ggcccatgta ctactccaac accgaggagt 120

ccttcgacgg cggcaagacc gtgtactcca ccaccaccga ggagtgctac gacgctggca 180

agctcggcca tggtaccggc tacggccagg gtcagagcta tggcaatggt gggaccaaca 240

tgtactccaa caacactggc gtcgactcca gcatgtacgg gcatggcggt ggcggcggtg 300

gcaggaccgt gtacaccacc accaccgacg agtgcttcga ctccgtcagg cccgggtatg 360

ggcagggcca cggctactgg cacaacaacg gtggggccat gccgtacacc accaccacc 419

<210> 5823
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007h07b1

<400> 5823

actgcgtcgt ccacgcgtcc gcccacgcgt ccgaaacgga tcgtctctcg attgttcgct 60

cccgagcacc gacccaaccc tagatctcgc agcagcaagc gcgaagccga cgccatggcc 120

aagccctggg gcggcgacgg cgcctgggcg ctcgacgctg agcgcgagga ctaggagcgc 180

gagcacgccg tggactttca cgcgcccgac ccgtccgacg acgcgggcgg cgccgtcagc 240

tttcccagcc ttaaggaggc cgtcgtagcc ggcggcggca agcagaagaa gaagaagggg 300

accacccttt cgctctacga gtttaccacc tacggtgcgg acggtgcgcc tcgccgagta 360

gtccccgccg agcccaaggg cctcaccccg catgagatga tgatgctccc caccggcccg 420

a 421

<210> 5824
<211> 270
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007h09b1

<400> 5824

cattaacgac tctgcccgtt gcccgaattt tttgttcacc accggcgata cggagcgtga 60

ggggaccttg attcaaccag caccgctgac gcccgcaggc tgacccagaa gagtttcggg 120

ttcgaacaac tggcccactc atggcccctc ggggccattg catttctgcg gcaggaggtc 180

ctgaccaatg atgaactgta agcccctctc cactagctgg gagaacacct gaaccgcgat 240

gataccctga ccgggacgaa agaagaactg 270

<210> 5825
<211> 83
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007h10b1

<400> 5825

ggggacgcgc cccagaacgg cgcaccaagc gcggcggctg tggcgagcac ccacagagag 60

accaaaaacac tagacagacc cac 83

<210> 5826
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008b02b1

<400> 5826

tttctgacgc gtgggcgcgt gatgatggag cagctgctgg atgcggcaaa gaagatacat 60

ggagccggca tcatccatcg ggacttcaag ccggagaacg tcatggtcgg cttcttcggc 120

gggctcaagg ttggtgactt tgggtcggcg attcgggcga agccggccag agtgccctat 180

gaggagtgtt gtgtcggcac cctgatttac acatcgccgg agcagctgga aggcaaccgg 240

tactagggcc aggccgtgga catgtgggcg cttgggtgca tcatggcaga gatgttggcc 300

ggcgggaccc tcttcgtggc ggagacagag gaggagctgc tcgccgagat ctacaagctg 360

cgagaccaga tcacttctac ggggaagctg gatttggagt tcttggagga gctttcagaa 420

gccgggcatg 430

<210> 5827
<211> 306
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008b03b1

<400> 5827

gaacccgaac aacaggccgc ccattttaaa tccggcgcgt gggttcacca tgattgactt 60

agtacggttg atgctgctca ctgaccctga tgagggcccg tccgggcaac tggcgttatc 120

atggggcttc cgtgccaaag gatgaattgg gaggaggcca tgactaaaga ggaacagaac 180

ggcccccctgc tgtcggtggg agaacaactg aaccaggatg tcagcctcac ggggacgaaa 240

gaaaaactgg ggcttcttac gccagagctt aaataggcgc ttggcgacac taggcctaag 300

cttggc 306

<210> 5828
<211> 513
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008b05b1

<400> 5828

ttgttcacgc gtccggttag tgctgaagct atgttgactg ctttaaatgg tgtggcctct 60

tcaagtaaaa atgattcaaa ggatgatgag tgggcatcct cagatgatga tgcagatgcc 120

atggaacagg atggtgactc agaagctgac agatcatcag tgagtttcaa agagcatcgc 180

cgcaatcact acgatgaatt ccgcaaggtc aaggaactga tgcgcactgg atccctggtt 240

gaagacgagg cccgtgcgaa tgagcgagct gcaaacaacg tcgaggacaa aaccgcagga 300

gagaaggcaa caggtgacaa gagtgaatcg tcagcatcac ctcaagtatg agccgcaaag 360

tgaattctgt ggttgctaag cctagggaag ttcaactaag cgggagcatg cagtttgcgc 420

ctgctctgtg tgtattgctg gatccttgtt ttcataccag atcngatgat tttctgtacg 480

caaagaaacc tgttctcttt cttattttga gat 513

<210> 5829
<211> 482
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008c01b1

<400> 5829

tcgtcacgcg tgcgggtgaa tccgatcgac gggggagtac aggagaagcg gggggtttcc 60

agaggacata cctgatggag aacaacagga gcaaccagca ggctcctgca ccaccgccag 120

ggtacccaac ggcgggtgcg gagcaaggcc aagcgggcgg gaagaagggg ggccgggcga 180

gcaccaaata caggggcgag aagggcttca tcgaggggtg cctggcggcg ctgtgctgct 240

gctggatctg cgagatgtgc tgcgactaac cggacggcga cggcgaggtt cctggcacaa 300

ggcctcggtg ctatcgtacc cacgaggagc gtatgcgtat acagagagag aattgttctt 360

aatttcagtg cccgctgctt taggttctac atatatactc ctaaggtgat gcacgcatga 420

tcagtactgt acccgcctac ctgtgagcgt gtgtgagata tttcatgtat acgtccgtgt 480

gc 482

<210> 5830
<211> 509
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008c04b1

<400> 5830

tcgttttgcc gaggcgaatg ctggggacgc tggtgcagct gccggatcaa aagactacgt 60

tcatgtacgc atccagcagc gtaatggtcg caagagcctg accactgtcc agggcctgaa 120

gaaggagttc agctacagca agatcctcaa agacctcaag aaagagtttt gctgcaatgg 180

tacagttgtc caggacacag aacttggaca ggtcattcaa ctccagggtg atcagaggaa 240

gaacgtctca aacttccttg tccaggccgg cattgtgaag aaggaacaca tcaagattca 300

tggtttctga acaactgcca gctccatatc agagtctaca tgcaaagcag ctatattattg 360

gtggtgcagt atatttagtt gtgtgctagc gcaagcaggc gttaccagct tgcgcgctct 420

gagtatacgg aaaatctagc atagcccacc tctctgcgtg tatgcttggt accctngtgt 480

tgaaaacttg aagggagcac catcgtaga 509

<210> 5831
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008c05b1

<400> 5831

ctgctcacgc gtccgaaaaa aaaaaaaaaa aagaaaaatt taaaaaaaaa tgggggtcaa 60

aaaaaaaaaa aaaaaaaaaa ataaaaaaca aaaaaaaaga aaaaaaaggg ctggcctttt 120

atgggtccca aatttacttt cccgggctgg gataaacaat gattttactt tgagaaccgg 180

tgggtccctt taagtggccc ggttttcccc ccccccccct ttgggaaacc tcgttttttt 240

cccgacttaa acaactttga acccccctccc ctttttcccc actgggtgat tgggaaaagg 300

gccgcgcccc ctacttttac ataattttgg gccttctttt tgttacttgg ggcgcacctt 360

ttaggggtgc cttagccctg ccctttgcta ctgtttctcc ccctcttgcc tttctttttc 420

ccccccctttt ttccc 435

<210> 5832
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008c08b1

<400> 5832

tcttttgccc tgaggaagat gtcgctcaac aaggccaaga ggtaccttga ggatgtgttg 60

gcacacaagc aagccatccc cttccggagg tactgccgtg gtgttggacg cacagcccag 120

gtgaagaacc gtcagcccaa tggtcaggga cgctggcctg ccaagtctgc taagttcgtt 180

ctggatcttc taaagaacgc tgagagcaat gctgaggtga aaggtcttga tgttgatgct 240

ctctacattt cacacatcca agtgaaccag gcccagaagc agcggcgccg gacctaccgt 300

gcccatggac gcatcaaccc ctacatgtcc aacccatgcc acattgagct gatcttgtcg 360

gaga 364

<210> 5833
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008c09b1

<400> 5833

ttctggccgt ttgcccccac tggcggtcta ggtgcgtctg cccacgcggc cgtggtgttg 60

tcgacccgcg ctttcacccg cgccggtgga tgatgctgcc cgagggccac ggcctgtatc 120

ctggccacgg caggctacat gggtacatcc gctttatcaa cctctccact ggcgccatcg 180

tccgttgcct gctcccgctt ttcagagatc actgcatcct cgactcggtc gatggtctcc 240

tcctcttgca acgggacgaa gacaccgcca tccgcctcct ccacccattc actggagaca 300

ttgcagagct gccgccactt gcgaccctca tgcgtcttcc tggagccaag aaaaatgttg 360

aaatggtctg gacgtatctt agaaacatcg gtgccacgtc tgtcagtgtt agtgcagctg 420

gagtcatcac ttgcatgatt 440

<210> 5834
<211> 493
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008c10b1

<400> 5834

tgtttttgcc cgtttctggc ttgcggtgac ctgagcggtt acgattcaga ccgctcatac 60

ccccttccaa gcacagaagg cggcacctac cagagcctag atccagtcca gcctccccatc 120

gccccgccat acaaaactgc attggagatg aagaaggcgt ctagccacgg cgctggcaca 180

gataccagca aattatctct tgacccccaa acaacattat agcttcagct tatgctcatc 240

tacccaatcg ccacatggaa acatatgaat catcctgcag tgacgttcag cacatgttgc 300

agagtagatg ctgaagttga agctgaattt tggttattca tccaatcttg aaggcaatag 360

catgtggaag agatggtata aaccgagggg tatgcatgcc atgggctaag caaactcttg 420

aatgaactat aagcctggat caccattgta gtactttgcc ttggtgtcat ttctggtatt 480

tccatattgg act 493

<210> 5835
<211> 503
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008d05b1

<400> 5835

tctttcacgc gtccggaact tttttcttct gagaggcatc catgagtgtg cttcaataaa 60

cagaatatat ggattttatg atgaatgcaa gcgtcgcttc aatgtgcggc tatggaaggt 120

cttcaccgac tgttttaact gtctccctgt ggccgctcta attgatgata aaatattatg 180

catgcatggt ggcctttctc ctgatctggg gcacctagat gagataaaaa acttgccccg 240

tcctaccgat gtgccagata caggtctact atgcgatctt ctttggtctg atccaggaaa 300

agatgtccaa gggtggggca tgaatgatag gggcgtttca tacacatttg gccatgacaa 360

agttacggag ttccttctaa agcatgatct tgatcttatt tgccgtgccc accaggttgt 420

tgaggatggg tatgaattct ttgctgacag acagctngtt accatatttt cggcttccaa 480

ctattgtggt gaattgataa tgc 503

<210> 5836
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008d11b1

<400> 5836

gcggacgcgt gggcggacgc gtgggtgtac agtttataat tttgaccgga actccaattg 60

ttggattccc aaagatacaa tggcgtgctc ttgatgagat caattctggt gtatgtgatg 120

ggatgacgta tgaagagata aagaaaatta tgcctgagga atatgagtca cgtaagaagg 180

acaagctgcg ttatcggtac ccgcgtgggg agtcttacct tgacgtgatt cagaggttgg 240

agcctgttat catcgagctc gaacgccagc gagcaccagt ggttgttata tcccaccagg 300

ccgtattgcg agcgctgtac tcgtattttg cccgcaggcc tttgagggaa gtttcagaca 360

ttgtgatgcc actccatacc atattcgaga tacaaatggg ccgtacctgt gtcttggaga 420

ataggtccaa gc 432

<210> 5837
<211> 71
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008d12b1

<400> 5837

cggtcccgaa tttctttttc gacccacgcg ttcttccacg cgtccaagcn ctagaccgca 60

gagggtttta t 71

<210> 5838
<211> 342
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008e03b1

<400> 5838

ctggcttccc ttgggctgga catacacggc gtcacgttgg caggtggcca accgatgatg 60

cgaggtgggt gtggtgttgt gatgtgtgtg gtgaccacna tggtggctag cagagctggg 120

tcgcggcttg tccttctgat gtcgaaggtc cggtgcgcca atggatgtgc ctatgctgat 180

ttctggctgt gacagataag tcggagctgc gggcggcagg gccactgcgg caatgatgac 240

tccatgaggg cggttttcag tggacggtgc tctcccgatg ttgcgttgga ctaggtcgat 300

gcgaattttg caactttctc ctgtgaaact cgttagcaaa at 342

<210> 5839
<211> 537

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008e05b1

<400> 5839

ttgttacgcg tgggtcgagc tatctaacta tcccgatctt gatcccgatc tcctaccatg 60

gtgtccgatg ccagcaagaa gaaagccgcg cagaagaagg ccgccgccgc cgccaagagg 120

ggagccaagt ccagcgccgc tgcctcgtcc tcgtcggcgt cgtcagcggc cgataaggcc 180

gccaatggcg tagcggccct taacttatcc gatcggacat gtaccggggt cctggcttcg 240

catccgctct cccgtgatat ccacattgag tgcctttcat taacatttca tggacatgac 300

cttattgtgg attcagaatt ggagcttaac tacgggaggc ggtatggttt gctcggctta 360

aatggttgtg ggaaatctac ccttctcacc gcaataggct gtagggaact tcccattcct 420

gacacatgga catacatcat cttactcgtg agaatgaggc ttctgacatg tctgcgctgc 480

aagcttgtat ctgttgtgat gtaaaaagag tgaagttgga aaggaagctt gaatttt 537

<210> 5840
<211> 167
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008e10b1

<400> 5840

tatttgcccc cgcagcgcct ggccacccgc gggggatttt taccgtatga cgggtcggac 60

cccatccgtc cagccggtaa gagtcaccac cccatcccat cgtctgactt cgctttcgaa 120

gggtcagata tggtggacct tgctaaccac ccttttgtca tgcagat 167

<210> 5841
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008f01b1

<400> 5841

tccacgcgtc cggagcagcc ctgacgcgag cgggattatt ggcctgctgg gccggatcat 60

ggacaagctg cctggttacc acaagacagg ggaggaggac aaggccgtct ccgatacagg 120

cgagcacaag cccagcgctt gatcgccgcc gtgcccgaga cccgtgaccg gacctcgatt 180

gaatagctgg cgtgtgttgc gtttgcttta cgtctaagtt ggtgtcaagg tgggagggt 240

tgatcgtatt tgaaagtacg gtccctgaag ccccttcaat gaccggtgct tctgtttaaa 300

tttggtttaa aatgaagtcc tgg 323

<210> 5842
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008f02b1

<400> 5842

tttgtcgtac ctcccgggcg gcgtgtgcgt ggggggcatg gttaggtcgg tgtggttcga 60

gcaggctgtg gcttgtaagg tgctgggcga ctacaactcg ccgcactgcc tcgacttcat 120

gttcgtcaac tggtactttg gctagtagtt tgtagatact agttcacaaa ctgttctgca 180

aagaaccttg gtgtgccggc gctaggtcgc ttttgccttg tgtttagagt aaagaccctc 240

tttgattcag ttttatcatc atcattcatc accctgagga acacgccttg gtgtggtggt 300

tacccacaaa gggaccgcta cac 323

<210> 5843
<211> 276
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008f05b1

<400> 5843

ttggtgtgac ccttcttggt cttgtccttc ttggtttatt gttcttggtg tgtgtgcgtg 60

tgttcgtgcc ggggtgtgag gtgtgggcgc gtgcgtgcgt gtatgtatgg gtcgcggtgg 120

tgtgggaggt gtctagtacg tgcgtgcgcc ggcgtgccat tctttgtgtt ggtgatcatg 180

tacttactct cttgttcttg ctatgaatga gaccatttat ttgaaaaaaa aaaaaaaaaa 240

ataaaaaaaa aaaaaaaaaa aaaagaaatt gataac 276

<210> 5844
<211> 513

<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008f07b1

<400> 5844

tttttgaaaa tcattcagaa ttttagcata tgggcaacaa ggccctctgc tctgctgaac 60

cccatcctcc tttccagaaa ccaaccagaa aatggcgttc agaggctact gccatcctca 120

cccttcttcc tccatggcca ccaccggccc gagattcggc gcgaggaggc cggcggcagc 180

cctgagcttc agagcctctg cagcccatgg atgcaaccag ccatcctcgc acctctcctt 240

tgctgcacca accagcaaca aggtgttcga ggaccaggtg agagggatcg tgtgctacag 300

ggacgacaag ggagagctcg tctgcgaggg ctacgacgag ggcccgaggc tcggaatgcg 360

gctgccggag aaggcctgct tcccgtggcc tgtgggagtc caggtcaccg atttcatccg 420

nctcgcgacg cttcgggtct tcgaggacgg cgccgacgac ggtcttctgc gcaagaacga 480

tcagaagtgg cagctctgaa gtctgaactg atc 513

<210> 5845
<211> 121
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008f09b1

<400> 5845

ccccaaccta gaacgcaata ccttccactt aatcctactt acatattcca acccacaatt 60

tctcgctcca gagttcccct tacgctcatc ccctaccatg actgtggtgt ccgttactac 120

c 121

<210> 5846
<211> 172
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008g01b1

<400> 5846

tggtaaagat ggagaaaatg ttgcagagag ggcagttctg atccagaatg gagcatcgac 60

atgtcttatc tcatttcatc aacttaacac acgtacatgc gtctactaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaatgaa aa 172

<210> 5847
<211> 441
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008g03b1

<400> 5847

tanctgcctc ggcgccatgc aggagggcga ggcggtgcgc gtgctgccgg cctgcgcgca 60

cgtgttccac gtcccctgcg tcgacacgtg gctcgcgtcc agctcgtcgt gcccggtctg 120

ccgtgccctg gtggagccgc caccgtcgcc ggccgcgcca gcctgggtgc aggagaagca 180

gggcctggag aaggagtgtg ctgcaagtgg gagctcggcg ccgccgtgtg ggctcggcgc 240

gtcgctgatg aggatgctga acagggagag gccgctggcg cggaggctga cgcaaggtga 300

ccacgcgcac ccgatggaaa tgcatgtcga ggacctggag agtcagcacc cccagcagta 360

tcactgtgtg gataccaaaa agtgtttttt tttgcgttgt gttttttttt gggggttccc 420

atttgttggt cgaatggaaa a 441

<210> 5848
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008g05b1

<400> 5848

tttcttggac ccggcatggc ctcacctgca ggttgtcttc gaactgttct taagatttgt 60

tcagtctcca gagacagatg ctaagatggc caagagatat gttgatcagg gtttcattct 120

caggctgcta gatctcttcg actcagagga tcctagggaa agggagtatt tgaagacaat 180

acttcacagg atatatggga agttcatggt gcaccgtcca ttcatcagga aggcaattaa 240

caatatattc tacaggttta tatttgagac agaaaagcat tatgggattg cagagctgtt 300

agagattctg ggcagtataa tcaatggttt tgctttgcct ctaaggaaga gcataaatcg 360

tttctagtcc gcgcgctgat tccactccac aaaccaaaat gtgttagcat gtatcattcag 420

caactgtcat actgtgtcac tcagttcgtt gagaaaagat 460

<210> 5849
<211> 91
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008h02b1

<400> 5849

atgcaccacg ttggtgtggg gaagttcttg atgatattga ttccaacagt gtaactgtga 60

ccgctgacta tcgagtgatt ctgcaaggaa c 91

<210> 5850
<211> 235
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008h03b1

<400> 5850

ttggttgatg tgaagaacag gcaggttaag gcgaagcagg tgacattcca caggaggaag 60

aacctgcagt actatgagat ctctgccaag agcaactaca actttgagaa gcccttcctt 120

taccttgcaa ggaagctggc tggtgatccc aacatccact tcgttgaagc agtggccctt 180

aagcccccgg aagtgacctt cgacctggcc atgcaacaac agcacgaggc tgagc 235

<210> 5851
<211> 476
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008h04b1

<400> 5851

tttttatcct catggtcggt ctcgatgcgg ctggtaagac caccatcctc tacaagctca 60

agctcggaga gatcgtcacc accatcccca caatcgggtt taatgtcgaa actgtagagt 120

acaagaacat tagtttcacc gtttgggatg tcgggggtca ggacaagatc aggcccctgt 180

ggaggcacta cttccagaac acccagggtc tcatttttgt cgtggacagc aatgacagag 240

agcgtgttgt tgaggcaaga gatgagcttc accggatgct gaatgaggat gagctgcgtg 300

atgctgtgct gctggtgttt gccaacaagc aagatcttcc taatgccatg aacgctgctg 360

aaatcactga caagcttggc ctgcattctc tgcgccagcg acactggtac atccagagca 420

catgtgctac ctctggagag gggttgtacg agggccttga ctggctgtcc aacaac 476

<210> 5852
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008h05b1

<400> 5852

tctacgcgtg cgcccacgcg tccggccggg gcccctttgg ggacaaggcc gaggtctacg 60

gcgtcggcgc gctcaaggtg gacgagcagc tcccggcgga ggacgtggag gtgttctacg 120

acccgggggа gctgctcgcg gggcttatca agggtcccaa ggaggaagac caggaggcgg 180

tggcgctcgc cgggaggctc ccggaggcgg ctactgtgtc ggaatgaggt gccgacgcgc 240

agccagaggc ctgcccctta cttggctctg gaaagcaggg gtgatcgagt ggcctcgcca 300

aataaaacgc gtcgagtcct cagacttcag gggggtgctc gagcatcact gtttcgcaat 360

aagaacgctc ctctctcagc agcttttgga gaccaactga 400

<210> 5853
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008h06b1

<400> 5853

ttgttcacgc gtccgcccac gcgtccggcc acgcccccac cggggacaag gtcgagttct 60

acggcgtcgc cgtgctcaag gtggacgagc agctgcgggc ggaggacgtg gaggtgttct 120

acgacccggg ggagctgctc gcggggctta tcaagggtcc caaggaggaa gacgaggagg 180

cggcggcgct cgccgggagg ctccgggagg cggctacggt gtcggcatca ggtgccgacg 240

cgcagcctga ggcctgcccc ttacttggct ctggaaagca ggggtgatcg agtggcctcg 300

tcgaataaaa cgtgtcgagt ctccagtctt caggggggttg ctgtagcata ctgtttcgca 360

atcagaaaga tctttctcgt cagcttttgg agaccaactg aaagctcagt tcaacgtgta 420

<210> 5854
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010a01b1

<400> 5854

tcgtctgatc gcgagcggcc gcatattaca tcgggggcat tttatattca gtgggcatac 60

cttgatggat taacaactat gagctaccag taggaaccta aaccaccgac agggttccca 120

acagagaatg aaaatagggc caagctttaa ggaagaaagg gttacggacg agcaccaaat 180

acaggggcga gatgggcttt atcgacgggt gcctagttgc gctgtgctgg tgatacatct 240

gcgagatgtg gtaaaactaa ccggtcccca actgaaaggt ttctggcaca aggcctcttt 300

gctatcgtac ccacaaagag cgaatgcgta tacagagaga gaattttcaa ataatttcaa 360

tgcccaatgg tttaaggtta caatttattc ttctaagata aacacccatg atcagggctg 420

ttccccccta cctgtgc 437

<210> 5855
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010a02b1

<400> 5855

tcttttgcat ccgatcgaca gcacaggaca acgggggcaa cttataacca gaggacatac 60

ctgctggata acaacaggag caaccagcag gctcctccac caccgccagg gtacccaacg 120

gcggatgcgg agcaaggcca agcggtacgg atgaaggggg gccgggccag caccaaatcc 180

atgggctaga cgggcttcat ggtgggggggc ctggccgtgc tattctgctg gtggatctgc 240

gagaggagct gcgactaacc gctccgtaac agagaggtta ctggcacaag gcctgggtgc 300

tatcgtaccc acgaggagcg tatgcgtata cagaaagcga attgctcata atttcagtgc 360

ccgtagcttt aaggtctaca tatagacgtc taacgagatg cacgcatgat caggactgta 420

<210> 5856
<211> 462

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010a03b1

<400> 5856

tcttctgcgc gtccgcccac gcgtccgccc acgcgggcgt tggattaggg ttgggcttgc 60

atccattctc aacgttagca ggagcgagtg ggagtccggc catggcgccg tcgcagccca 120

agtcagggct cttcgtgggc atcaacaagg gccacgtcgt caccaagcgc gagctgccgc 180

ctcgcccgtc cgaccgtaag gggaaaggta caaagagggt gcattttgtc aggaacttga 240

tcagggaggt tgctggattt gctccctatg agaagcgtat cactgagctt cttaaggttg 300

gaaaggacaa gcgtgcactc aaggtcgcca agagaaagct tggtactcac aagagagcaa 360

agaagaagag agaggagatg tcaagtgttc ttaggaagat gaggtctgct ggtggtggtg 420

ctggtgacaa gatgaaatag aacttggcta gctggtgaat tt 462

<210> 5857
<211> 279
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010a07b1

<400> 5857

tgttttcaat caatcaataa tactaatagg gggtgcttgt tgatggtggt gggaatagtc 60

cgctaatttg atctggtgct gaactgaacc cagtgtggct tacactgttg actgatgagg 120

gttgagagag tgtcaatggc tctcgcgtct gggcggtgga gctgggagga gtagatcctt 180

actctgtacg tgaacaggac ggcggttgga tttgttattt gcgtacaatt acaataatgg 240

aatgccaatg atgatggttg agcgagcata ctagaacac 279

<210> 5858
<211> 494
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010a08b1

<400> 5858

tcttacccct cctcgtcaca tcgggcgcct agggttttcc cacccgccgg ccggcgatgc 60

ccgcctcctc cgtctccggc agcaccggcc ccggcggcgt gtcgcccgac gccatcatcg 120

agtggctgca ggacgagatg ggctacccct ccgcgccgcc cgcgcccgag cagctgcgca 180

agatctgccg cggcaacatg ctcccggtct ggtccttcct cctccgccgg gtccgctccg 240

agcgcacggt cgccacggcg cgccggaaca tcctcgtcca cggcgtcgcg gccaggcggg 300

cgcgggaggg gggcgtcggg gcgggagggg gcgacgcggc tgccagagag gccgaggcca 360

gggagcggga cctcgccgcc gaggaggcgg aacggctgcg cggtgtcgtg cggaggcagc 420

gcaaggagct gcgcgcccgc atcgcggagg tcgcgcgcga ggaggcctaa cgcaagcgtg 480

tgttgggcga gcgc 494

<210> 5859
<211> 277
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010b01b1

<400> 5859

tcgtccacgc gtccgaaaaa aaaaaaaaaa aaggaaaaaa ataaaaaaaa aaaaagaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaagaaaaa aaaaacaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaagaataa ataaaaaaaa aaagaaaaaa ttaaaaaaat 180

gcgggggggtg tttttataaa gaaaaacgtt atttcagcct gtctgggacg aaaaaagaat 240

tttttgttgc gccccgaaaa aaaaaaaaag gagcttg 277

<210> 5860
<211> 252
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010b05b1

<400> 5860

tcttcacgcg tccgcgcccc cgtccccgac cggggaagct attggtgctg tattgccatt 60

agcatcatac atgacaccgt ctacctgacc gcctaagcta ttggtgctgc attgccatta 120

gcatcataca ggacaccgtc tacctgactc ttcttgttgt tgttacaata aacaaaccca 180

tgcgtgcagc gtgttaaggt gaggtctggc actttgtttg ctcgatgatc tatacattat 240

tttggtgttt gc 252

<210> 5861
<211> 281
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010b06b1

<400> 5861

acactgtgat atccccttcc agcccgggct ttggtggggg atttttaag ctctatcggg 60

agtactacta gctagcctag attagggttt gtgtagacaa gaagggagat caatggccga 120

gacggccaac cgttgtttct gggggagtcc atgatgaaac accaactaca acaacctcta 180

cgatggcttc atgcacaact gaaagatcct cgacgccaag atcatcaaca acgcgcaaga 240

cggggagggt ccgtcagatc tgatagagga cgttcgatac a 281

<210> 5862
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010c05b1

<400> 5862

tgtcgccgcc gcagccgcct ccgtctccgc cgccacgatg ccgtcgcaca agaccttccg 60

gatcaagcag aagctggcca agaagcagcg ccagaaccgc cccatcccct actggatccg 120

catgaggacc gacaacacca tcaggtacaa cgccaagcgc aggcactggc gccgcaccaa 180

gctcggattc taagccgggg atgacgatga tgacgcccgt tgccgccgac gggagaaggg 240

tctagggtac ctagggttta tggcgtctcg ttgtttttgc aagctagcat gtgactccgg 300

gatgcctgtt ttaagattaa gatttcgctt gttttgagag atattattat ttactgcttt 360

gagcctacct gggataccat catattttgc tgattatgga acagctttta ttctgcttaa 420

gc 422

<210> 5863
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010c06b1

<400> 5863

ttgttggtat ccaagtgcaa agcgtgcagt actgaggact ggtggggatt ttcccttcct 60

gtcacgtcca gatgaggtca atttgtacct tcagctacac ttaaggcgag ttggagtaga 120

accaagacca gatctagtcc agggtttcac acgggatggt agctccggct caaacgacca 180

cgaagatgga aacagttttg atgaccatcc cacagatgat ggggaccgta gttcatgcag 240

cgatggccgt aagacagagc actctgaatc agggccacct aattcagatg gactggtacc 300

aacaagcata gtgctaggca tggtcagatc agctctccat gtttccctat gtgcgtgctc 360

atgatgcatc attacta 377

<210> 5864
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010d03b1

<400> 5864

ttttcacgcg tccggggagg tgcaaaacct gggcttccta atgccgcaca gaccccaact 60

gcaggtgctc ccatgaatca aggcacccca atggctcaag gtactcccat gaatcacagc 120

accccaatgg cccaaggtac tcccgtggct caaggtgccc ccatggctca agcccctcct 180

gctccggcac aaagcaccga tgaggtaaag ccatcggagg ctacaacagc tcctgacaat 240

gtggaggcta cagcagctac cagcaatgcc gaagctactg cagcccctgg tactgcggaa 300

gctacagaag ctccggttcc agacccaaca agtagcagtc ctgacgctgc tgatgctcca 360

gcttcagctc ctgctccagc agctgattcc agtggcactg atgcacttgc tgttactccc 420

agtgatttta caaatgatgc ac 442

<210> 5865
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010d04b1

<400> 5865

ttgtaacgac gccttgccag cgcacggcaa ggtggtgctt gtggagtgca tcctgccggt 60

gaacccggac gccacgccta aggcgcaggg ggtgttccat gtcgacatga tcatgctcgc 120

gcacaacccg ggtggcaggg agaggtacga gagggagttc gaggccctag ccaagggcgc 180

cgggttcgcc gccatgaaga ccacttacat ctacgccaat gcatgggcca tcgagttcac 240

taagtagatg atgaatgaca gcgtccaccc atctgatgca tccacttgat gtgtactttc 300

tcttggtgtt tccttaattt tgtcattctc tgaatcattc taaattctaa tgtttgtgtc 360

gtcgattgat tcgaaatgta ctaccattaa taatgttaat tgctcttaat ggttgtgtgt 420

at 422

<210> 5866
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010d07b1

<400> 5866

tgttcaaccc cggctacccc tacgaggagt cgctcatggg ataccacaac gtcaccagca 60

tgaacatgtg catgtatttt cccaagttca atgcgtttaa cttcaccaag ggcggtctcg 120

cgcagttcaa ccacggccag ggccaggcgc tgcagtacgc cgtcgccaac tccttcctcg 180

ccgcgctcta cgccgactac atggagtccg tcaacgtccc cggctggtac tgcggcccca 240

acttcatgac cgtcgacgac ctccgctcct tcgccaaatc ccagctgaac tacattcttg 300

gggacaaccc gatgaagatg agctacgtgg tggggtacgg caagaagtac ccgaagcggc 360

tgcaccaccg cggggcgtcc acgcccaaga acgggatcaa gtactcgtgc accggcggca 420

acaagtggcg cgactccaag aaggccgacc ctcacgtgct cgtcggcgcc atggtacgcg 480

gtccggac 488

<210> 5867
<211> 350
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010d08b1

<400> 5867

gtctaccacg cgtccgccca cgcgtccgct gccctgcgac acaagccacc acttgaatct 60

caagcgcgga gaggaggaag aagagaggag caatggagta cgggcacccc tgcaacagct 120

gcagcagcaa caaggagaag aggcctccgt tcaagagagg ccagctcaag ctgcagatcg 180

ccaggactct cggcagcctc gtggtgccgg gcgccaagag cagcttcagc ttcagaagat 240

gatcacctga gcagccactc aatcagggca agcagcattt tctcagccaa tctacgagta 300

tcggatggtc tggtgcttga tgtataccgg gattgtgcaa gttgaacaag 350

<210> 5868
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010e01b1

<400> 5868

tttgtatata aagaggtcaa acgaaggggc ggggaccgat gcttcagagg gcgctgggtt 60

ctaggtaaca ccgaggaaga tgactcggtt gatctcttgc atcctgacag ctctgccagg 120

agttcagaat ctaggccttc tggtgtaatg gaggtgcagc ttgagcctct caccagatga 180

gtagtagaat agcgtagatc aatctgtatc tcccagtgtc agatacacac acacacacac 240

accaagtcct gttttcagtc atacaacaga aacagatggt gtccacaagc acggtgactt 300

tccgctcaga aagaaaattg aatttctcat gcttgtttct tctaccatgg cagaatggta 360

ccaggctaca taggatcttc aaattatgcc tttgatttct tgcgtcacac tgttcagaat 420

tgatagtgta cattttggtt ttttacaata gacaggcaca attttgta 468

<210> 5869
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010e04b1

<400> 5869

taccacgcgt gcgcccacgc gtccgacaac ccggacgatg tcgatgtggt cgtcggcgcc 60

tcctccgcca cgggattgaa tgggctggtg gacaggcgcg cgactctacg ccctcctcgg 120

tcgagggttg gatggagccc tcggctgcgt gggaacaacc atcggcagac gcgaccccga 180

cgactgtgct cgtggtgctc gctctgatcc cacccgtgct tccacaggtg taccagctcc 240

tctctgtata ttctttgatt ttttttctgt tcagttcatc tttcatggtt aattctttgc 300

aacaatttga taagatgctg aaatcaaagg tgtggcctct atttgatgag ccagacacaa 360

ggaggagtat gggtctgcat gtacatataa gaagaagatg gcttgaggtg aattgtgtat 420

gttttcagtt gcgtcg 436

<210> 5870
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010e09b1

<400> 5870

tgtcgtgaag acccacagaa cgagttcctg tggggcctta ttgcgatcat atggtgtttc 60

acctgtcctg acagatactt tgagaaggtc gtccggttgg cccttggagg cgtcggtaca 120

gacgaggaca cccttacgag ggtcataacc actcgcgctg aggtggacct gaaggtgata 180

aaggaggcgt accagaagag gaacagtgtc ccgctggaga aggctgtttc caaggaaaca 240

agcagagact atgaagatat gatgcttgca cttctggggg cagagtactg aggcatgtgc 300

ctgatctacc atatgcttga tgatggggga ataagagtgc ataaaactgt cgagtgtgtt 360

ggttttcaag gatgatatac gttagcctgc atggcagtac tcgtccgatg aattatatta 420

ttttcgtatt ttgagctgca aaaatatatt tagtgttttt tg 462

<210> 5871
<211> 430
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316010e10b1

<400> 5871

tgttcgttca tctcattccc ccacctcccc ctcccggtat ggttgacagc gaccgcggga 60

agctcccggc tcgcctcctc cctccctccc tcccctgtct cctctcccgg ctccatccat 120

ccaccgggag gagagggcag caggcggagg aggccacacc tacctaccta tctatctatc 180

tgtctgtcta agccgccggc atggactcgg agcactggat ctcgcgcctg gccgtcgtca 240

agcgctttta cgccgcgcag ctcggacacg ccggcgcaga tcgggcgggc atggacgagc 300

tggacatgga cggtgaccag aacgccggca ggcccgactt cacctgcccc tactgctacg 360

aggaccacga cgtcggcttc ctcattcgcc acctngagga ggaccacccc ttcgagcccc 420

acgccgcgcc 430

<210> 5872
<211> 531
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010e12b1

<400> 5872

ttgcacagca gaagcaactc gtagccagag ggcgtacttt atggagaaca acgggtgcaa 60

ccagcaggct cctccaccac cgccagggta cccaacggcg gctgcggagc aaggccaagc 120

gggcgggaag aaggggggcc gggcgagcac caaatccagg ggcgagaagg gcttcatcga 180

ggggtgcctg gcggcgctgc gctgctgctg gatctgcgag atgtgctgcg actaaccggc 240

ctgcgactgc gaggttcctg gcacaaggcc taggagctat cgtacccacg aggagcgtat 300

gcgtatacag agagagaatt gttcttaatt tcagtgcccg ttcgtttagg ttctacatat 360

atactactaa ggtgatgcac gcatgatcag tactgtaccc gcctacctgg gtgcgtgtgt 420

gagatattta atgaatccga ccgtgtgcag tgccatattc atgcaccgcg ttctgtgtta 480

tataaccggg gggcccagac ccagatacta ctcatcatac cgtgattggg t 531

<210> 5873
<211> 189
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010f01b1

<400> 5873

tttactattc atctcacagc gcaggcagag ggggggggtt tttagcaacc atggctccac 60

ccaaaggttt gcacaatggc cgttattgag ctcaccattc tcgttcgtac tggtgctcct 120

ggacgtggcc atcaccgttc aggcgcccgg agcggtcccc gcggtaacgc tccaagacct 180

gacttcacc 189

<210> 5874
<211> 306
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010f06b1

<400> 5874

ttctcacgcg tccgcccacg cgtccggtat gggagttgta tcagctgagc tatgtgtagt 60

tggtgtagcg actgagaagt gtgtctagtt gcatccgcta ggctatgtgt agttggttta 120

gcaactgagt taatgttagt tccaagagtt gttcatggtc ctttgtaaga tatccaaaag 180

tctgtgtctg tattggtcga tcatagtgtt ataattcgtg aaataaaata tatcagtggt 240

tgctttaaaa aaaaaaaaaa aaagaaactg taaacacaaa gactaaaaat gaaaatataa 300

ataatg 306

<210> 5875
<211> 544
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010f08b1

<400> 5875

ggcggaccca ccgcgggaca ggcaccgagc gcctatttcc ggggtcgacc acacctgttt 60

tgttcagcct gggatcctgc ttgctagtcg accgtcattc tcaagaaact cctcagctcc 120

accggccgcc cgtgaaggaa ggaggcgatc ggccatgggg aagatgtgct gcagccagga 180

ggaggacgag gcggggttca acctgctgcc gctggtgatg gccgccttcg tcatcatgct 240

gctcttcgtc gtctgctcgc cgccgccccg gcgcaggcgc tgcgtcgtcg tcccgtgcta 300

ctgacctgac ctgacctcat ggtggccggg tggtgggagc ctcgatcggc ggtgctgtag 360

gcaggcaagt ggctggtgct gtggtaggcg tttgtttggt tggtgtttga attttctgac 420

tgatgcgtgt tgggtcggag aataatctca atttctgttg aattcgatcg gacctgaaag 480

ctaaaggtat tctgttgttg gccataaagg attcctaatc cgctattttt tgggcggcct 540

tttt 544

<210> 5876
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010f12b1

<400> 5876

atcgtaaaag ctgaagcaag gggtttctgc ggcggggttg tgaagagatc catcgatttc 60

gcgtgtcgat tgctttatgc tgggctcctc tttacctgat aaaaaatata taccagctgg 120

agctgcggtg ttgagctact gtttatgtag aaaccttgtc ttgagtggta catcgtcggt 180

attggacacc ttatttaagc gaactgataa accttagtct gaattgagct gctcctggtt 240

atagtttttg taaatttaaa actttgctgg ggatcatctg tggcaaaaaa aaaaaaaaaa 300

taataatacc taacgaaaat caatataaat t 331

<210> 5877
<211> 210
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010g01b1

<400> 5877

tctcgtacgc gtgggttttt tttttagagg aggcgccatg tattagagtt gctgtaagct 60

acttattgtt gatgtcatgc gggaaaggtt gaattgggat tcattcaaaa aaaaaaaaaa 120

gaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa ccaaaaaaaa 180

attggggcgg gggctctaca ggttcaaagt 210

<210> 5878
<211> 295
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316010g03b1

<400> 5878

cttctgtatc attgtggcct cttcaggctt cgtgttgact tcagtcttcg tctgtacgtt 60

tgggtgcgtg ctatgccttg tgatccgatg agatgctgta ttaatcccag tttaaccttc 120

ggtgcatctg gtgtgttgtg ccaatctata tcccactacg attgattgtt ttgagcatta 180

ttagttggga atacatgcgg cgtgtnaaaa aaaaaaaaaa aaaaaaaaaa aatactaaaa 240

aaaaaaataa aaaaagaaat tagaaaaaaa aaaaaaataa aaataaaaat aatcg 295

<210> 5879
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010g05b1

<400> 5879

tctgttattt ctggttctag tagagattta cagggtggcc tatgtgcgcg gtttgctttg 60

tacatttgct gcacactact gtagctcgtt ggtctgatcg ctcttgttag gtatatatgc 120

acatatttta ggactaaaaa aaaaaaaaga aacaaaaaaa aaggaaaaaa aaaagaacaa 180

taaaaaaaaa aatataaaaa 200

<210> 5880
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010g07b1

<400> 5880

gagcaattct gtgcaaacag cccctacaga ggatgctaat gggagcggcc atgttactac 60

gagcggcgca ttagcaagca caaacggaat gccacagatg aacatttgag ctctgcgttg 120

cagtgcgcca tcgatcatgt tctgaatgga gcaccatgtg tttaccagtt gtggcaggat 180

aaggtcctgg acgtgtgtaa ttcagaacag acttcccgtt gcttttccgg aggtgcatca 240

gaccgttcaa gcttctgttg ttgtgtgttt ggtgtgataa tagctcaagc ttccaacctt 300

tcccggtttg g 311

<210> 5881
<211> 461
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010g08b1

<400> 5881

ttcctttaga tgcgagcgcc gccctttttg ggtgtatttt tttgcattgc aatccatgac 60

cccaacaaat cagaagcact taacaaatac aatctcactc cctaacaata cagcaaagaa 120

gggaaaatag aaccctcaag aaaagggaaa aatggaagaa ccctcgctaa tcatcagtaa 180

ccaaatgctt caatcgcaca agacggagag gccaaagcca ggctctcata aagggctcac 240

ggccgactca cgatcagagg tggtcgccgt tcatgagcgc ggtggccttg gcgccgcacg 300

agacggcctt cttgggcacc ttaccgacgc ggtcgatggc cttggcgaag atgaccccca 360

tccccatgtg gaggtgcggc tcgatgtggc agtggaacgc ccacaccccg gggttgtccg 420

tgacgaaccg tagcgccgtt cactcggaca ggaagatcac c 461

<210> 5882
<211> 477
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316010h02b1

<400> 5882

tttgtttatg gaatgcaggg ccttgtctgc ctgggggga ttttagatta aacatgctgt 60

acagtgataa agcggggact cttagacctg gcatccaaga agataatgga atgtctgcac 120

ttccaacacc caatgaaatg tttgctcttc cagcacccga acaatatcgt ggctccattt 180

cctcgaggat gaagaggcgc cctttgaatg gttcatccca gggcagtccc cgtacatgat 240

ttcctcggga atttaggtag aactgtgttc ccggattgaa gaaaaggaag aggatgaatc 300

gctagctcac tgcagctatt cagaaaacta tgtctacngt ttactcagct tagcttaaaa 360

ggttctgttg ctattgttga tgtatattgn tgttcccttt agcaaggatg cgcacgcaat 420

cataaaaaaa cgaacttctg tttacaagaa cgatcatgtt ttccacgact gttgaat 477

<210> 5883
<211> 216
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010h05b1

<400> 5883

tcgtcctcgg cgcgcgcgcg ccctacgccc gcccggcgct tttcgccgcg gccatcatgg 60

actcggagga gaagtcggcg tcggcgtcgg cgtcgtcctc ctcgtggctc gggctggcca 120

gcaccgacgg cgccttcgcc ctctgatctg cacggacgga cggagcaaga cggcttgccc 180

gcttcaagag atcgtttgta gagcacttga agcggg 216

<210> 5884
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010h06b1

<400> 5884

actgtaaaac gctaggtacg atgtgtaatg tgacgatgat aaaagatttt cgatggatca 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

agggggggggc cgtttaaaag aaccaaaatt aacttccccc ggcatgcaaa gtaaaaattt 240

ttttataggg caacaaaaat aaaataaatt gcccgttgat aaaaaacctt aaaatgggaa 300

aaaccctggc tttacaaaat taaaactctt taaaaaaaat ccccttttaa caaaatgggt 360

aaaaaaaaaa aaggccctaa ccaatcgcct ttaaaaaaaa aggcaaccct aaatggcaaa 420

tggaaccccc ctttaaccgg caaaaaagcg cgggggggtgg ggggg 465

<210> 5885
<211> 259
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010h08b1

<400> 5885

agtcggaagg cgctaaggtg ttggagacgt ggatgggcta tttgaacgtt ttatcggtaa 60

agtgctatac tgtgattggt gtaatattat atggtcatat tgtgattgga ggaatgtaat 120

aaactagatt ggtacatcgg tgatttggat gatatatgaa tatatttaaa atgtgttctc 180

tgattggtga aaacaactaa accgagatgt cagaactaac ggaaaaaaaa gaagaactaa 240

aactgggtgt ccgatatat 259

<210> 5886
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a01b1

<400> 5886

tctttcacgc gtccgcccac gcgtccggtg aaatacaaac tattttcatt ttgactgccc 60

cagaagaact ccttcgccgt tacctctttc cttagtgttg tcttactata tttcctgcaa 120

agattgggtg caaccctgag ttcatatgat gtatggctac gaggcacgag tactcgtagc 180

ttctaaggtc ccctgctgcc accgtagtcc agttccatat tctttcgagt gtgataatgt 240

caattttgat ttcattggct gtgtaatcag ttgtaaatat tagttatctc ggctctgttg 300

cacattgtct ctttccccgc cttggactcc tgatgtgtaa ttcaccaatt aataaacttg 360

caatacattt ccccttttaat cagctggaaa aatataaaag ggggg 405

<210> 5887
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a02b1

<400> 5887

ggctggtccc acgcgttctt ctatcgcgtg ggctgccatc tcctctgtgt gaccacacat 60

gaaactaact tgggacttaa acgccactac caagggatgg actccctgtg aaactggccc 120

attctttctg tggctccacg ttttgatgga ttataagcac gtctgctcca ttggataaca 180

gggtctagtg ctcgggaata acaatgtctg cagtgtacga ctcagtgttc ttcctaaatg 240

acactaccat gcaattggct ggttctcatg ccatggctag ctgcagatac tatatcttctg 300

gtttgttcat gtgcacgcaa acgggttgtt tcagcttcct taatggctta ctgttg 356

<210> 5888
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a03b1

<400> 5888

tctttttcgc gtgggctgaa atctcctctc tggtttttta catgaaacta acttgtgact 60

tcaacgccac taccaatgga agtactccgt atgaaatttg tccatccttt ctgtggttcc 120

atgttttcat ggattataaa catgtttgtt caattggaaa cagggtatag tgtttgggaa 180

taacaatttc tgcagtgtac gaattagtgt tctttctaaa tgacactctc atgcaatagt 240

ctgtctctca tgccattgct cgtttcagat attatatctc tgttatgttc atttgtacgc 300

aaatggcttt ttacagattc cttaattctt gactgttgat aagcatatgc tctgatccgt 360

gttcctctgc tgtgattttg cccccaggta a 391

<210> 5889
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a07b1

<400> 5889

tctaccacgc gtgcgcccac gcgtccggtc gatgttgcat taagctgggg tggaaggaag 60

gcctgtgaat gaagtgttgg attacagttc caattgctcg tcttaatttt tgaataaata 120

tatagttgtc taaaaagctc agtaaaatct tccgaatcga gaactcatca tttgtgtagc 180

ccctctgtat atttaaaact catggatggt cccgtggttg aaatgtcaga tatgtgttta 240

ttatttagcc tgccttgtag aaactttatt cccgagttaa atatcatcat acacccttg 300

cccatatttt tgtaccatta ttgatattga tgtcgatacc atttcttctg gttttc 356

<210> 5890
<211> 259
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a10b1

<400> 5890

tctttggaag gaagaagatg gcggtcgagg ggaccgacaa ctgcatcgac atcattcttg 60

ccatcatcct gccgccgctc ggcgtcttct tcaagttcgc ctgcgggatc gagttctgga 120

tctgcttgct gctcaccttc ttcggttacc tacctggcat catttacgcc gtctgggtca 180

tcaccaagta ggactgcatg caggaggggc ttctctgcct ctgccgctag gtgatccatg 240

gcgaacttgt tctgtgtgt 259

<210> 5891
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014b03b1

<400> 5891

tttgaccaga gcggccatgg ccgcaggcca ctgctacctt cgaccgccac agcctcgcgc 60

cgcgcgggcg cgagcgccgc agtaaccgac gagcgagatg ggttcgccga ccgtaagaaa 120

gagcgccgcg tcagccgctg gccgcctcca ctccaagagg agccggggct gcacacgagc 180

cgcgctagga agccccacgc agaggccgaa ggccatggcc gtgtgtagat cttcccgctg 240

ctgcatgccg gaaggcagcc gaaggccaag gcctgcatgc ccgaagacca gccgtcggcg 300

aaaggatcaa aaccggaagg cagcaccccg aacctcgtac gcagcaatta gatcaaggcc 360

tcggccgccc cctgactc 378

<210> 5892
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014b05b1

<400> 5892

atttttatga gtccgcggcg ccgccgtggt ggggaggcca tgatgcacag tcgtgaggac 60

cagagaagag tacaccaccg ggccggaacc tgctgccgtg aaccgtcgtg gcggcacgga 120

aggagcgccg ctacggattg gggaggagcg ccgttgcagg cctagggaga gcgccgtccg 180

gaccaagctc cctgctccac cgatcaagga ctcttgattc cggccgcctg cagcacatca 240

ggccatcagc taacagaatg ggagcactga gcaaagcttg cgggatgcaa aaaacagaga 300

ggccgttgat ttgcttatat ctggtcctgc tattaagtta ctgaagcaag acaccctt 358

<210> 5893

<211> 352
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014b06b1

<400> 5893

ttcttattcc tggcactctg tcttcaagct tatcgccttt atcctatctc cggcctctct 60

tcggcatggg gaacttcgcg tcctgcacgc tggccaggat ccccggggcg gccaagggcg 120

ccagggtcgt gctccccgac ggcgggctca ggctggtcag gcccccggcg acggcggcgg 180

agctcatgct cgaggcgccg ggccatttcc tgaccgacgc gcgcgcgctg caggccgggc 240

gccggatcga ggcgctcgcg gctgacgacg acctcgagct cgggggcgtc tacgccgcct 300

tccccatgaa gcggctcggc tccaaggccg cgcccgccga cgtggcgcgc ct 352

<210> 5894
<211> 159
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014b08b1

<400> 5894

ttctaaggga aaaaaaggat tttactatgt tttcttttta atgtttggca tcgcgttgta 60

tcaaactcag ccgctctttc gctgagtaat gtacatttgc ctcgccatgg caacttgtgg 120

gctctgctgc tgctttattg aagatgatcg caattttac 159

<210> 5895
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014b09b1

<400> 5895

gtggtgggca acccgtcggg gtccaagcgc ggcacggttt gcatccaggg catcgcctgg 60

agcttcggcg gcatgatctt cgtgctcgtc tactgcaccg ccggcatctc cggcgggcac 120

ataaaccccg cgggcacctt ggggctgtca ctggccagga agctgtcgct caccaggcgg 180

gcggtctaca tggtgatgca atggctgggg cccatatgcg gtgctggggt tgtcaagggg 240

gtccagacca cgctgtacca gggcaacggc ggctgcgcca acttcgtcag gccgggtac 300

accaaggggg accggcttgg ggcctccatt ggtggggacc ctcgggctga ggtccaccgg 360

tttt 364

<210> 5896
<211> 188
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014b11b1

<400> 5896

ttttcaatgt tagcttccta gctcatgtgt gtcagttttt cagttagttg cgactgcttg 60

cttgtgcatc acccctcaat caacaagtga agtaaataaa agtggtggtt tatgtgcaca 120

agaacagaac ttccccacag aagaacaaaa ctgaaaaaga acccagtgaa agaagaaaaa 180

cttaaggt 188

<210> 5897
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014c02b1

<400> 5897

ggttgtccca cgcgtccggt ctagcaaggg tgcgtgcgcg tgtgatttgc ttgctcgctc 60

tccgcctatg ctctgcccat ggtgtccttg cgtgtatgtg tgtgcgcatg tctccctgta 120

attgcttcat ctatctccac tatggatgga gtgatgaata tgctagaatg aaagatttac 180

ctaattaact agtcctacat 200

<210> 5898
<211> 148
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014c07b1

<400> 5898

gcggtccact gttgatctac taggtgcagg aagaaggtgt gatacagcac tggcgccgat 60

agcagctgac gccgaggagg tcgtggcctt gcaatgggca gagcaatggc ccttctgagg 120

cacagtcgct ctgtggagga gcccagga 148

<210> 5899
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014c09b1

<400> 5899

ttcccacgcg tccgccggcc atccttcaaa ccgtcagctc tcaggccacc ggagcttcgc 60

tcgccgaccg actcgactcg gccggcgatg gggaggacgc tggacgtgct gctgggccga 120

accaccaagc agacggcgcg cctcaagtcc ctcctgcacc tcgccacgaa gcggatcgcc 180

gtggtgcggg cgcaccggga ggtgcggtgc gcgcaggcgc ggggggacgt ggagcagctg 240

ctgcggcagg gccacccgga ccgcgccctg ctccgcgccg agcaggtcat ccgggagcgg 300

gacacgctcg acgccctcct cctgctcgac gcctactgcg cgctcctcgc cgaccgctcc 360

gcgctgctcg acgacgcgca ccggggctgc cccgacgagc tgcgggaggc cgcggcggag 420

ctctgcta 428

<210> 5900
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014c10b1

<400> 5900

ggtactgtcc gaattcccgg ttgcccagcg tttttgacgc gtggggttct acggacctgg 60

tggaccttat gccctattcg ctggcaaaga cgccagcaga gctctagcca agatgtcttt 120

cgagccccag gacctgaacg gtgatacctc tggcctcggg ccgtttgagc tcgacgccct 180

gcaagactgg gaatacaagt tcatgagcaa atatgtgaag gtcggcacca tcaagaaggc 240

agcttccgca gaagacggca ccacaagcac atccccagaa acaaatgaaa cagtcaccgc 300

cgaggcagag accgagaagg cacccgccac ggagcacaag ccgagggagg tgagcttcga 360

ggaggttaaa gagaaggaag ccac 384

<210> 5901
<211> 350
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014d01b1

<400> 5901

ttgtaagaaa gagggagccg ccgtgtagtc ggcggccgtg ggcgtaggcg aggtcgttag 60

cggtggcggc ggcagcggcg gcggtgacca gttagggtcg gcggccaaag gagccggcga 120

aggagcagag tcgggcgtgg gcggcactgc tgaaaaagcg gggtccggtg ggagccaggc 180

agtccagggc gccggtcaag gtgctggtag ctcttactcc ggcggcggcg gcggccgtcg 240

ttgagcctgc cgtgtaccgc gggatcatcg ccgccgtgac tgaggaatga tacccaacca 300

tgccactgcg aataaaatca agctgcttaa ttcacaataa aaaaaataaa 350

<210> 5902
<211> 154
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014d04b1

<400> 5902

gaaccggccc ggaacacccg ggacgaccca cgcggacggt cacgcgaccg cccacgcgac 60

cgaccacgcg gccgcccacg cggccgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaagcaacc aaaaaaaaac acaaaaggca ccac 154

<210> 5903
<211> 172
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014d07b1

<400> 5903

cctgtgaaat gtgataacta tgaactgttt tcaatgcggt ctttgccaga aacatgtcgc 60

cgctcgctct gctgactttc ttatcgcttg ctggtgctga acctgctgat ttccatgtgc 120

tgtgctaata aagcaacata gtcctcggat gctgtggtaa acaaaataaa aa 172

<210> 5904
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014d09b1

<400> 5904

tttattcaaa gcttacaatc cccatcatct gtcaccaaac cgatagcaaa gcaaccccat 60

acatagaagc ttacaagcga agcatgcgac cgagctaatg gacatggcac cgcctgcatc 120

cgccgtctcc ttctcccccc gcccatcgac gggaacgact ttccggcccc gcgccgcttc 180

cgcctctggc tccgtgggcg ccgggcgggt ccgcgcggcg gtagcccccg agggagcgcaa 240

gtggtgggcg ccactgctcg gctggtctgg gcgggcggac tacatcgagg ccgcggcacc 300

ggcgccggcg atggcgatgg ctatggcggc ggaggaggag gagaaggcgg tgaggtcgtt 360

ccgtgggcgg cctgacggag gagaaggcgc ggcaactgcg ggcgcggatg gtggaga 417

<210> 5905
<211> 352
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014d12b1

<400> 5905

tttgaaggcg catggctcga gcatctacat ggctcttgag agcggaagca gggtcgggat 60

gaaccgcaaa gctgagcgct tcagctttgc ggtgcctctc ctgacctccc aggtggtcgc 120

ctgaggtacg caagaatcgg caagtcacaa aacggcaatg gtgaactccg gcaggagtcc 180

acccccctttt tatccttttc tctccattca gttgtatcag gtggaagtcg aataatcgga 240

agtctctgtg tgtgatgaat caatggatgc ttcaagtcca tgttttgttt ttctcttcct 300

ttattatggg cactctggaa acactactat aaatgggtga tgttcatttt gc 352

<210> 5906
<211> 182
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014e03b1

<400> 5906

tttgaaccct catactcaca acagatacta ggaaaccgat cgaccatagg cggaactgac 60

actgcgacac acaccgcaac aaagatacag ctgagcaaac gcaggcacac gggagcccgg 120

caagaggtgc tgcatcgatc gctcgctcgc tgctgaaccg acactgggcg acgactggcc 180

cc 182

<210> 5907
<211> 299
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014e05b1

<400> 5907

ttcaacattg tgccgtcggt ggtgtacctc aagccgccca agccgaagca gggcatccgg 60

ctcgtgctcc agtgcgtcga ggagccgcac gccgccgtct tcacccagga gctggagaag 120

ctcgcctaag agggcttgcg ttcgtcatgg ttacctccat actttacaga attatttacag 180

gtgggatttg gagttgctgt tgctgctgta ttcttcatct tgtcgtgcgt cgtagttgtt 240

gcattccaca ccaggttttg ctttcaacaa acaaataaat cactgagggg ttcttctct 299

<210> 5908
<211> 504
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014e06b1

<400> 5908

tttacgcgtc cgtctctctc acggacctgt gaggctcctg cggctccagt gcgcgggact 60

ggcggcaagg cggtgggcaa gatggattgg caggggcaga agagcgcgga gatgctgatg 120

caggtgctgc tggtggcgtc ggcggtggcg gcgttcctgg tcgggtacgc gatggccgac 180

ttccagctga tgctgctcgt ctacgccggc ggggttgtcc tcacggcgct cgtcaccgtc 240

cccaactggc cgttctttaa ccggcacccg ctcaagtggc tcgacgccgc cgaggctgat 300

cgccaccccc gcccgcagat cagcagcgca ccagcgacga ccgggggtaa gaagaagacc 360

ggggagaaca aggagtcatg ttacttatgg cccatgtggt gcagacatgt tttatgatta 420